THE CHEMIST AND DRUGGIST

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COMPETITION FOR DECEMBER.

Diary Coupons.

Each copy of The Chemists' and Druggists' Diary for 1895 sent out contains a coupon, upon which there are nine questions. We ask subscribers to answer these questions to the best of their ability, or to delegate the matter as provided on the coupons. This forms our competition for December, and, to ensure a good response, we shall give ten guineas in prizes. The answers nearest in accord with the average opinion will, of course, take rank for awards. We shall be glad if the coupons are returned as early as possible this month.

CIRCULARS AND PRICE-LISTS.

At this season, and during the first month of the year, it is customary for many wholesale firms to distribute circulars and special price-lists to the trade. Some may not have considered that we undertake this generally arduous task, and through our Winter Issue accomplish it more effectively and cheaply than can be done otherwise. We therefore ask wholesale firms and others interested to communicate with the Publisher as to the conditions and terms upon which we undertake the distribution of circulars and price-lists in the issue mentioned.

"C. & D." DIARY, 1895.

We have despatched this week by the Globe Parcel Express, carriage paid to destination, a copy of the 1895 Diary to all subscribers in the United Kingdom. If a charge has been made to any subscriber, we shall refund the amount paid on receipt of the Diary wrapper or the carrier's receipt.

Subscriptions which expired in November should be at once renewed in order to secure a copy of the Diary.

Copies of the Diary were sent some weeks ago to subscribers in Australia, India, China, Japan, South Africa, North and South America, and other foreign countries, and they should be in the hands of subscribers before the New Year.

Summary.

Mr. A. C. Abraham has resigned his seat on the Pharmaceutical Council (p. 805).

We give an abstract of a new Pharmacy and Poisons Act for Western Australia (p. 821).

Mandall's Patent for a medicinal compound containing liquorice has been revoked (p. 811).

Store prices on many pharmaceutical articles have been reduced. We note the changes on p. 803.

A mysterious case of alleged poisoning with strychnine is reported by an Indian correspondent (p. 804).

The veteran quinologist De Vry writes us a letter this week on the practice of pharmacy by doctors in Holland (p. 828).

We give some particulars regarding the origin of jumping beans, with illustrations of the seeds and the insects within them (p. 819).

The managing director of Murgatroyd's Ammonia, Soda, and Salt Syndicate has died through an overdose of homœopathic belladonna (p. 802).

The presentation of a testimonial to Mr. T. C. W. Martin gives us the opportunity of printing his portrait and some notes on his career (p. 820).

The proposal of the Chemists' Assistants' Association for a series of post-graduate lectures is not viewed with favour by the Pharmaceutical Society (p. 805).

A man named Hanlon has been committed for trial at Dunedin, N.Z., on a charge of counterfeiting the Inland Revenue stamps for Beecham's pills (p. 812).

Mr. E. H. Gane disputes the correctness of the statement that ℞ stands for *recipe*, which he says does not mean "take thou" in the dispenser's sense (p. 828).

Mrs. Saxlehner seeks to have removed from the trade-marks register four labels for Hungarian mineral water which have been registered by a French company (p. 811).

It appears, from a statement made in the Academy of Sciences, that German chemists are earnestly supporting the scheme for the erection of a statue to Lavoisier (p. 803).

The death is reported of Mr. William Hooper, one of the founders of the Pharmaceutical Society; of Mr. Frank Horner, wholesale druggist; and of Mr. Henry Gadd (p. 822).

A chemist's shop at Treherbert has been completely burnt down. The fire was caused by a lighted match dropping into a spirituous draught, an explosion of the bottle resulting (p. 802).

Dr. Kuhn, whose father was associated with Pasteur in the celebrated research on the sterilisation of beer, has communicated an important paper on a kindred subject to the Society of Chemical Industry (p. 808).

Amongst the papers read at the last meeting of the Chemists' Assistants' Association was an interesting one tracing the history of the germ theory of disease, and the growth of inoculation practices (p. 808).

The new premises of the Pharmaceutical Society in Edinburgh have been opened with all the signs of local enthusiasm. One of the best speeches at the dinner was made by Sir Thomas Grainger Stewart, M.D. (p. 806).

Our Company News includes reports on several drug-companies. Boots (Limited) show a profit of 8,121*l.* on the year's trading and pay a dividend of 10 per cent. on ordinary shares (p. 814). Some notes on new enterprises in this direction will be found on p. 819.

The Pharmaceutical Council, on Wednesday, appointed Professor J. R. Green and Mr. Seward, of Cambridge, as examiners in botany, and Professors Percy Frankland and Herbert Macleod as examiners in chemistry on the London Board. The examiners who have retired are Messrs. O. Corder, J. Fletcher, T. E. Greenish, and G. S. Taylor. Several members objected to the appointment of a teacher in the School of Pharmacy (p. 805).

English News.

The Dose of Antipyrin.

A therapeutics committee of the British Medical Association recently reported on the dosage of the more common antipyretics, including antipyrin, in regard to which the conclusion was that the dose should not exceed 10 grs. Dr. McCall Anderson now writes to the *British Medical Journal* regarding the matter, pointing out that this must not be taken as a hard-and-fast rule. In support of his assertion he mentions three cases of epileptic children to whom antipyrin was given for the relief of pain. In one case the doses given were increased nntil they reached 25 grs. thrice daily, in another 45 grs., and in a third 50 grs. No really serious effects resulted. The chief thing to note is that the initial dose must be small—5 grs. for an adult, increasing as it loses effect. Dr. Anderson says in summing up:—"Antipyrin is not the dangerous drug which some observers have led us to suppose. In large doses it often yields surprisingly good results, and in chorea it is the only medicine from which cures may confidently be anticipated."

Theft from the Till.

Elizabeth Morley, a young woman, living at Sutton-in-Ashfield, was charged at the Mansfield Petty Sessions last week with having attempted to steal certain moneys belonging to Mr. John Stanley, chemist and druggist, Outram Street. The evidence of Mr. and Mrs. Stanley showed that while the former was in the back shop getting putty for Morley she went round to the till. The Bench found the charge proven, and imposed a fine of 10*s.* 6*d.*, or fourteen days imprisonment.

An Overdose of Belladonna.

The Cheshire Coroner held an inquest at Middlewich, on November 28, touching the death, on the Sunday previous, of Mr. George Lomas Murgatroyd, the managing director of Murgatroyd's Ammonia Soda and Salt Syndicate (Limited), of Middlewich. Dr. McJanet, of Middlewich, who had made a *post-mortem* examination, reported fatty degeneration of the heart, and said that in his opinion deceased had died from poisoning by belladonna. George Williams, cashier to the company, said that the deceased, who was aged forty-four, had complained to him of indisposition for many weeks past. Witness had at various times recommended him to go to a doctor, but he had always replied that he had an aversion to allopathy. Deceased was a homœopathist. Deceased had been in the habit of treating himself for years. It appeared further that he had been taking aconite and belladonna. At his request his housekeeper put one drop of belladonna in a quarter of a tumbler of water. He had one dose at nine o'clock on the morning of Sunday (there were two teaspoonfuls to a dose), and he had two other doses during the day, the last being at 4 P.M. As he was very weak, and not able to get what he wanted, she sat up with him, and gave him some water during the night, but she dozed off, and was awakened about half-past four by hearing deceased getting up, and he had fallen on the floor before she could get to him She telephoned for assistance to the works, and propped him up with some pillows, but before anyone arrived he was dead. Deceasod had taken belladonna ever since she had known him. She had been in service there ten years, and housekeeper for four years. Dr. McJanet was of opinion that there must have been a later dose of belladonna than that given at four o'clock to have proved fatal. The housekeeper was recalled, and said she was positive deceased could not have got up during the night without her hearing him, and she gave him no later dose. The jury found a verdict of death from an overdose of belladonna, but how or by whom administered there was no evidence to show.

A Chemist's Shop Burned Down.

A disastrous fire occurred on Thursday of last week at the shop of Mr. Richards, chemist and druggist, Treherbert, in the Rhondda Valley. An assistant had mixed a draught containing spirit and acid for a horse. This he placed in a bottle, and directly afterwards a lighted match accidentally fell into it, causing an explosion, and setting fire to the shop. In his efforts to extinguish the flames, the assistant was badly burned, and had to receive surgical treatment. Some of the neighbours sent for the fire brigade, but by the time they arrived the whole place was in flames, nothing being left except the bare walls. Mr. Richards was at the time at Porth, where he has a branch shop. The damage, which is estimated at about 800*l.*, is only partially covered by insurance.

Glass-bottle Industry.

A Castleford correspondent has good authority for saying that the delegates of the Yorkshire glass-bottle makers have agreed to recommend a reduction in the glass-blowers' wages of 3*s.* per week, and 15 per cent off the overtime money. A meeting of the founders, and labourers connected with the trade, was held on Saturday last at Castleford, when it was agreed that any reduction in their wages would be resisted.

Medical Preliminary Examination.

The General Medical Council have now revised the list of Indian, Colonial, and foreign examinations which will be accepted in lieu of the Medical Preliminary, and have agreed that after October 1, 1895, no certificato will be accepted by the Registrar unless it shows that the examination has been conducted by or under the authority of the body granting it, includes all the subjects reqnired by the Council, and states that all have been passed at the same time.

Bigamy by a Chemist.

At the Kent Winter Assizes last week, Arthur Moyse (28), described as a chemist, pleaded guilty to feloniously marrying Annie Stanley, his wife being then alive, at Ramsgate, on August 15. Mr. Mackintosh appeared to prosecute, and Mr. Hohler defended the accused, who had been in business as a chemist at Tunbridge Wells. It appeared that the prisoner lived with his wife until last March, when he removed to Margate, leaving his wife at Tunbridge Wells, and on August 15 went through the form of marriage with Miss Stanley. For the defence it was urged that the prisoner's wife was a woman of bad temper, and that he could not live with her. Baron Pollock said that that was no excuse for the prisoner ruining the life of Miss Stanley, and condemned him to four months' hard labour.

Diphtheria Sorum.

The latest supplier of this new remedy is Dr. Klein, who offers (to hospitals only) diphtheria serum prepared at the Brown Animal Sanatory Institution. It is distributed in 1-oz. bottles, and the dose is 1 drachm.

Poisoned by Paraffin Oil.

An old man named Baker, 81 years of age, residing at Oxford, was in the habit of drinking beer mixed with rum. In mistake he poured some paraffin oil into his beer, drank it, and died three days afterwards At the inquest on Friday a verdict of death from inflammation and shock, caused by drinking paraffin by mistake, was returned.

The Jersey Chemist and the Dog.

Mr. John T. Baker, A.P.S., of "The Waterloo Pharmacy," Halkett Place, St. Helier, was last week charged at the local police court with cruelty to a dog, by throwing some corrosive liquid into its eyes. It seemed the animal had taken a dislike to Mr. Baker (who himself owns a magnificent St. Bernard), and flew at him whenever he passed by. On the occasion in question he had thrown some smelling-salts at it in self-protection. A veterinary surgeon stated there were no traces of corrosive fluid, and even if water alone was injected, inflammation might follow by the dog rubbing its eyes to get rid of the irritation. The Magistrate acquitted Mr. Baker, observing that there was considerable doubt as to what he really threw at the animal, but telling him he should inform the police if annoyed by it in future.

A Long-firm Broken Up.

At the Kent Assizes Charles Barnes, Arthur Barnes, and Henry William Litchfield, chemist, were convicted of carrying on a "long-firm" at Ryarsh, and defrauding a number of tradesmen, amongst them being Mr. William B. Stoneham, chemist and druggist, of Maidstone. The prisoners took a small shop, which was described as "The Stores" on

elaborately-got-up order-forms, and in the event of a reference being required, one of the prisoners would write from the "Old Manor House, Ryarsh" (which was a fictitious place), that the firm was a very respectable one, and that the prisoners were proper persons with whom to open an account. The prisoners obtained about one hundred different articles from Mr. Stoneham. When the prisoners were arrested the goods were all packed ready for removal. Baron Pollock sentenced each of the accused to eighteen months' hard labour.

Paying for the Experiments.

In the Lambeth County Court, on December 4, before Judge Emden, Mr. Huntley, described as an inventor, residing at Peckham, sued Mr. Hickson, a chemical-merchant, of Liverpool, to recover 27*l.*, incidental expenses incurred in making experiments for chemical treatment of salt. The plaintiff said he had paid several visits to Northwich for the purpose of making these experiments, and his out-of-pocket expenses amounted to 27*l.*, which sum he now claimed from the defendant on the ground that he agreed to finance the experiments, as he had an interest in the invention. After reading a long correspondence put in on behalf of the defendant, his Honour said he was satisfied that the plaintiff did this work for the purpose of proving the value of his invention, and gave judgment for the defendant, with costs.

Store-prices.

The Army and Navy Stores announce the following reductions (since September):—Antipyrin, to 3*s.* 4*d.* per oz. tin; tartaric acid, to 1*s.* 3*d.* per lb.; citric acid, to 1*s.* 9*d.* per lb.; bovinine, to 3*s.* 6*d.* per bottle; Mellin's food biscuits, to 1*s* 9*d.* per tin; B. W. & Co.'s cascara-sagrada tabloids, to 4½*d.* and 1*s.* per bottle; chlorinated lime, to 2*s.* per 7-lb. jar; carbolic powder 15-per-cent., to 5*d.* per tin and 10*s.* per cwt.; citrate of magnesia, to 1*s.* 4*d.* per lb. bottle; Carter's iron-pills, to 2*s.* 1*d.* per box; citrate of iron and quinine (Howards'), to 7½*d.* per oz. bottle; cream of tartar, to 1*s.* per lb.; Jough's cod-liver oil, to 6*s.*; frame-food biscuits, to 2*s.* 2*d.* per tin; crushed linseed, to 3*d.* per lb., 1*s.* 6*d.* per 7 lbs.; seltzogene powders, to 1*s.* 4*d.* per 3-pint box, 1*s.* 9*d.* per 5-pint box; Scrubb's household ammonia, to 10*d.*; Aspinall's neigeline, to 2*s.* 8*d.*

Elixir Beauvais has been advanced to 6*s* per bottle, and pure white wax to 3*s.* per lb.

The Civil Service Supply Association announce (since November) a reduction in borax from 4*d.* to 3½*d.* per lb., and of B., W. & Co.'s cascara tabloids from 7½*d.* to 4½*d.* per bottle of 25, and ditto (sugar-coated) from 1*s.* 6*d.* to 1*s.* per bottle of 100.

French Pharmaceutical News.

(From our Paris Correspondent.)

M. Edouard Thierry, formerly director of the Théâtre Français, whose death was announced last week at the advanced age of 81, was the son of a pharmacist who was well known at the beginning of the present century.

The Botanical Collections of the Paris Museum.—M. Bureau, professor at the Paris Museum of Natural History, has just published some interesting information concerning the botanical collections in that establishment. It appears that during the past sixty years the specimens have grown from the number of 800 to 70,000.

The Vitality of Microbes.—In making a communication on this subject at the Academy of Sciences this week, M. Bouchard remarked that M. Royer has submitted various species of microbes to the highest pressure it is possible to attain—viz., 2,000 and 3,000 kilogrammes. Several of them, such as the microbe of boils and the bacilli of the colon, have easily supported these extraordinary pressures. On the other hand, the microbe of erysipelas and that of charbon partly lost acivity and virulence. When inoculated into animals, after the experiments under pressure, they were found to produce maladies that were easily cured.

On Lady Pharmacists.—Madame Séverine, a lady journalist, who has acquired some reputation lately, has been interviewed by a deputation of students from the Quartier Latin with a view to learning her opinion on the invasion of the professions by women. She appears to admit that some of her sex who favour the sciences have no very brilliant genius, but adds that this might also be said of some men. Madame Séverine thinks that women are particularly qualified to become pharmacists, the reason given being that their delicate hands are well suited to measuring drugs and chemicals into medicinal doses. This lady journalist is not very complimentary in expressing her opinion of men drapers.

The Statue of Lavoisier.—Among the correspondence read at the Academy of Sciences last Monday was a letter from Herr Fresenius, the well-known German chemist, who informed the Academy that he had taken steps to open a subscription in Germany towards the fund for the proposed monument to the memory of Lavoisier in France. He mentioned that the project had received the support of six hundred members of the German Universities. On the proposition of M. Berthelot, a vote of thanks was accorded to Herr Fresenius for his assistance, and he was named the delegate of the Academy, as well as of the special Lavoisier Committee, for Germany. It is understood that Dr. Heinrichs, who has undertaken to raise a similar subscription for the United States, will also be named the Academy's delegate.

Foreign and Colonial News.

American Manufactures and the Wilson Bill.—The *New York Herald* of November 11 publishes a circular issued by Messrs. Seabury & Johnson, addressed "to our employés," announcing that in consequence of the Republican victory on November 6, the firm would restore the salaries of their work-people to the level at which they stood before the passing of the Wilson bill. That bill, writes Mr. Seabury in the circular, "will be cremated with funeral honours," but "it will for a time be impossible for every industry to so quickly respond to the situation. The advance of wages is to commemorate the glorious victory achieved by the Republican party, and also as a remembrance of Mr. Seabury's semi-centennial birthday on November 10, 1894. The *Herald* regards this circular as an indication of a deeply-laid scheme on the part of large employers of labour and by business firms generally, to force protection on the American people. The *Herald* quotes instances of many other firms who reduced wages when the Wilson bill passed.

A "Tape-worm" Quack.—A case which has excited some considerable interest in the colony was heard recently before the Magistrates at Georgetown, Demerara. Madam Yglesias was charged with having in September last obtained from one Saltus Jones by false pretences the sum of $12 with intent to defraud. The defendant had arrived in the colony, and had advertised that she was prepared to treat persons suffering from worms. Mr. Jones fell into the snare and, visiting the defendant by appointment on September 27, partook, under her direction, of a spoonful of dark-looking medicine, and a draught of castor oil and beer mixed. Subsequently he was subjected to the action of an enema and as a result was shown by defendant several small white objects like worms, which he was led to believe were the "liver-worms" from, which according to Madam, he suffered. Mr. Jones paid $12 for his delusion, placed the specimens in a bottle, and took them to Dr. Hill, of the Colonial Hospital, who handed them to Dr. Daniels, a specialist in the study of worms. The two doctors examined the specimens microscopically, and found them to be sections of tape-worm cut longitudinally and transversely. Dr. Daniels manufactured some specimens of his own, and proved in court that such could not have been expelled from a human being in the form and manner described, nor could tape-worm come away in such a form. The Magistrates found for the prosecution, and fined Madam Yglesias $100 or in default six weeks' imprisonment. Notice of appeal was given.

German Electro-chemical Society.—This new society held its first meeting at Berlin recently. The object of the

Society is the development of electro-chemistry in its scientific, technical, and economic aspects. Amongst the first communications to the Society is one by Professor Ostwald on the work done by J. W. Ritter, a contemporary of Galvani and Volta, who was the first to perceive that Volta's electro-chemical arrangement of the metals corresponded to the order of their affinity for oxygen. Dr. O. Frölich has communicated a paper on "The Practical Application of Ozone," which has been introduced into many different branches of manufacture, the most important of these being bleaching, the ageing of spirits, tobacco, and coffee, and also of wood for the sounding-boards of pianos, for which latter purpose it has been applied by a piano manufacturer, Mr. René, of Stettin, since 1881. In this case the chemical change due to action of ozone on the resins contained in the wood is probably an important factor. The thickening of linseed oil which is effected in linoleum manufactories by allowing it to trickle over strips of gauze for several months, can in like manner be done with ozonized air in a few days. The conversion of crude potato starch into the soluble variety, as well as into dextrin and other gummy substances by ozone, has been effected by Dr. Frölich, and the method is to be introduced practically into a manufactory now in process of construction. Dr. Frölich also hopes to accomplish the production of nitric acid from the air by means of ozone.

INDIAN PHARMACEUTICAL NEWS.

A BUSINESS CHANGE.—Mr. W. E. Smith, of Madras, has severed his connection with the firm of W. E. Smith & Co., chemists of that city, and as Smith & Sons he will, with his two sons, open a pharmacy at Ootacamund, and a branch at Coonoor.

A VISITOR.—Our Bombay correspondent, writing under date November 19, mentions that Mr. W. H. Carter, principal of W. H. Carter & Co., manufacturing chemists and mineral-water makers, Bristol, is on a visit to India for his health. Mr. Carter has suffered from bronchitis for some winters back, and he hopes that the trip in India will set him up again.

ANTI-CHOLERA INOCULATION.—M. Haffkine, one of Pasteur's pupils, is visiting India, and in association with Professor Hankin has been inoculating many soldiers (both officers and men of the ranks) with his cholera virus. The officers particularly are very ready to submit themselves to the injections, which are made in the left side under the ribs. Up to June last nearly 25,000 persons had been so inoculated, but no great measure of success has followed.

A STRYCHNINE MYSTERY.—A very remarkable case of poisoning has lately occurred in Calcutta. A Bengalee girl, for whom a mixture had been dispensed at one of the native drug-shops, took fits within twenty minutes and died within two hours after its administration. Two doctors were in attendance at the child's death; but they expressed no opinion regarding the cause of her sufferings, nor did they direct a *post-mortem* examination, and the body was immediately cremated according to the custom of the Hindus. At the inquest it was stated that strychnine—which had not been prescribed—had been found in the bottle of medicine, and, based upon this, a charge was preferred against the Mahomedan compounder in that he by mistake or negligence had substituted strychnine for glycerine, one of the ingredients of the prescription. In the course of a protracted trial a native analyst declared that no strychnine had been found in the bottle, while the Chemical Examiner to Government proved that he had found it. The Judge's conclusions in this dilemma were that there were a good many reasons for believing that there was no strychnine in the phial till after it had left the premises of the first analyst; that one of the principal witnesses had possession of the phial for two or three hours in an unsealed condition, and that it was "not unlikely that he had tampered with it." He did not see any evidence to find the defendant guilty of the charge, and therefore directed his release. It may be added that it was brought out in evidence that the witness referred to is said to have had some interest in an opposition pharmacy to the one in which the medicine was dispensed.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

THE proceedings on Wednesday were somewhat lengthy as things go nowadays, a circumstance due partly to the fact that at the last meeting of the year there are always some odds-and-ends to be dealt with to clear the way for the year following; but the business which occupied an unusual proportion of the time on Wednesday was the election of examiners. A committee of the Council has been working for many months to select four professors or teachers to examine in botany and chemistry, and amongst those so selected is Professor Reynolds Green, one of the Society's School staff. In the anticipation of opposition, apparently, the President made a somewhat lengthy and explanatory speech, but this did not prevent four or five speeches, in which the principle of Professor Green's selection was objected to. That principle, briefly put, is that a pharmaceutical professor should have a voice in settling the qualification of his own pupils, and those opposed to it say that it may prejudice, in the eyes of the public, the value of the statutory qualification for chemists and druggists.

The new premises in Edinburgh also occupied the Council's attention, but that chiefly in the way of reminiscence, for the visitors appear to have had a particularly good time.

We were glad to note the return of Mr. J. G. F. Richardson, of Leicester, to his place at the Council table apparently restored in health.

Those present at the meeting were Mr. Michael Carteighe (in the chair), Messrs. Allen, Atkins, Bottle, Cross, Gostling, Greenish, Hampson, Harrison, Hills, Johnston, Martin, Martindale, Richardson, Schacht, and Southall. After the disposal of the minutes, elections, and restorations, the PRESIDENT reported that during his absence in Edinburgh he had heard of the

DEATH OF A FOUNDER OF THE SOCIETY,

Mr. William Hooper, who had passed away at the ripe age of 91. Mr. Hooper was one of the old-time pharmacists, and had carried on business in Russell Street, Covent Garden. He was a typical pharmacist of the old school—one of those who always wanted the best, and who said the best was good enough for him. His name had become familiar—a household word in connection with high-class pharmaceutical products. He was particularly kind to his successors. His death severed another link with the past which to each of them was of great interest. He proposed that a letter of condolence should be sent to the widow of the deceased member.

The TREASURER (Mr. Hampson) desired to second this proposal, for he had known Mr. Hooper when he first came to London. He had then been struck with his strong individuality and great business capacity, and he was sure it was fitting that they should remember that he was no longer with them. (Hear, hear.)

The PRESIDENT remarked that there were still ten of the original founders alive between Cockermouth and Brighton. Those of them whom he knew were hearty, too.

FINANCE.

The month of November was a quiet one so far as the receipt of money is concerned. In the course of the month the Treasurer had to pay 1 831*l.* 17*s.* 5*d*, and to enable him to do this a sum on deposit was realised, which brought in 1,001*l.* 4*s.* 5*d.*, and with what was in hand left a balance, increased by November receipts (169*l.* 10*s.* 10*d.*) to 553*l.* 11*s.* 6*d.* A sum of 1,015*l* 2*s.* 5*d.* was voted on account of current expenses, salaries, &c. The Benevolent Fund receipts amounted to 73*l.*, and a dividend of 2*l.* 8*s.* 9*d.* was received for the Orphan Fund.

The PRESIDENT found nothing in this report to speak

about, but turning to the Treasurer he said that the election of annuitants next week would bring in more money to the Benevolent Fund. ("And more grief," quietly added Mr. HAMPSON.)

SUPERINTENDENTS OF WRITTEN EXAMINATIONS.

The following appointments were proposed and agreed to:—

Aberdeen.—Mr. A Strachan
Aberystwith.—Mr. E. P. Wynne
Birmingham.—Mr. C. Thompson
Brighton.—Mr. G. R. Gwatkin
Bristol.—Mr. John Stroud
Cambridge.—Mr. Arthur Deck
Canterbury.—Mr. Edwin Bing
Cardiff.—Mr. John Munday
Carlisle.—Mr. J. Hallaway
Carmarthen.—Mr. W. Lloyd
Carnarvon.—Mr. J. Jones
Cheltenham.—Mr. W. Barron
Darlington.—Mr. J. Robinson
Douglas (I.M.).—Mr. J. C. Radcliffe
Dundee.—Mr. J. Hardie
Edinburgh.—Mr. J. B. Stephenson
Exeter.—Mr. J. H. Lake
Glasgow.—Mr. W. L. Currie
Guernsey.—Mr. J. B. Nickolls
Hull.—Mr. C. B. Bell
Inverness.—Mr. D. McRitchie
Jersey.—Mr. George Cole
Kirkwall.—Mr. D. Stewart
Lancaster.—Mr. J. Vince
Leeds.—Mr. R. Reynolds
Lincoln.—Mr. J. T. Birkbeck
Liverpool.—Mr. John Smith
London.—Mr. G. S. Taylor, &c.
Manchester.—Mr. Harry Kemp
Newcastle.—Mr. T. M. Clague
Northampton.—Mr. J. Bingley
Norwich.—Mr. F. Sutton
Nottingham.—Mr. C. A. Bolton
Oxford.—Mr. G. T. Prior
Penzance.—Mr. B. Shakerley
Peterborough.—Mr. M. Heanley
Plymouth.—Mr. F. W. Hunt
Sheffield.—Mr. W. Ward
Shrewsbury.—Mr. W. G. Cross
Southampton.—Mr. O. R. Dawson
Worcester.—Mr. H. George
York.—Mr. J. Sowray

Deputy superintendents were also appointed.

ASSISTANT LOCAL SECRETARIES.

The following gentlemen were appointed Assistant Secretaries for districts in their respective towns:—

Birmingham, Mr. F. H. Prosser; Dundee, Messrs. C. Kerr and W. Park; Glasgow, Messrs. J. Moir, J. A. Russell, A. Boyd; Liverpool, Messrs. A. S. Buck, W. S. Grace, F. Walker, T. H. Hudson, and C. J. S. Thompson; Manchester, Messrs. A. J. Pidd, G. S. Butcher.

BENEVOLENT FUND.

Of six cases considered by the committee, two were deferred, and grants of 5*l.*, 10*l.*, and two of 20*l.* were recommended, and 10*l.* was voted to the Casual Relief Fund.

The VICE-PRESIDENT (Mr. Cross), in moving the adoption of the report, said he had had the opportunity of seeing several of the applicants for relief, and he could testify to the deserving nature of the cases. One, a lady, was a direct descendant of one of the Society's first honorary members, an eminent man of science, who, through no fault of her own, now required relief. He was glad to note that the reports of the Council, especially remarks which he made regarding the Benevolent Fund, seemed to be read, and that some subscribers took an interest in the working of the fund. These remarks were prompted by his having received one or two blank voting-papers (signed) to fill up, and he wished it to be known that any so sent to the Secretary would be filled up in the manner decided upon by the committee.

The PRESIDENT intimated receipt of a donation of 7*l.* 7*s* from the Junior Chemists' Ball.

Local Secretaries having been appointed for Crewe and Merthyr Tydvil, the report of the Library, &c., Committee was read. The most interesting item of this referred to

POST-GRADUATE LECTURES.

A proposal that the Society should institute a course of such lectures was made to the Council by the Chemists' Assistants' Association, but the Library, &c., Committee could not recommend it to be adopted, adding, however, that if a sufficient number of pharmaceutical chemists came forward, the school staff and Council would endeavour to arrange a series of lectures on pharmaceutical subjects.

The PRESIDENT, in moving the adoption of the report, said the Assistants' proposal had been very carefully considered. They had some difficulty in clearly understanding what it was the Council were asked to do; whether post-graduate was meant to apply to pharmaceutical chemists or to Minor men. If to the latter, and the object of the evening lectures was to fit them to pass the Major, then the Council could not do anything of the kind. After explaining what "post-graduate" means in the medical profession, the President proceeded to say that the Council could not give training in special subjects, such as water-analysis, or in the subjects for the London University degrees. They could only instruct in pharmaceutical subjects more advanced than the Major.

After brief remarks from Mr. HAMPSON and Mr. BOTTLE, the report was agreed to.

RESIGNATION OF A COUNCILLOR.

Mr. A. C. Abraham wrote resigning his seat on the Council, and, on the motion of the PRESIDENT, it was agreed to thank him well for his services. Mr. CROSS suggested that a Londoner should be appointed to fill Mr Abraham's place, as there are too few London men on the Council for carrying on the Executive work. This will be considered next month.

PHARMACY IN BARBADOS.

The Marquis of Ripon, as Colonial Secretary, sent to the Society copy of a new ordinance passed in Barbados, dealing with the registration of chemists and druggists in business. This was referred to committee.

THE EDINBURGH PREMISES.

The PRESIDENT stated that Messrs. Hills, Young, Johnston, Storrar, Martin, and Martindale had accompanied him to Edinburgh, in order to attend the celebrations connected with the opening of the hall and laboratories. He spoke in high terms of the hearty reception which they had received from Scottish pharmacists, and referring to the new premises said the work had been carried out splendidly by Mr. Blanc. He added some warmly expressed sentences regarding the devotion of Mr. Ewing to the Society, and concluded a high compliment to Mr. J. Rutherford Hill, the Assistant Secretary, by stating that the Council proposed to add 50*l.* to his salary.

Mr. HAMPSON supported what the President had said, adding that every penny spent on the Edinburgh premises had been wisely expended.

Mr. MARTINDALE said the suite of examination-rooms were well suited for their purpose, and in some respects were better than those in London.

Mr. ATKINS was very glad that the Council recommended the increase of Mr. Hill's salary, for he was an excellent officer. This was an act of wisdom. When they had a good man they should do their best to keep him.

Messrs. JOHNSTON, HILLS, and MARTIN also spoke.

ELECTION OF EXAMINERS.

It was agreed that the Board for Scotland should be as recommended, viz:—Professors Patrick Geddes and John Gibson, Ph.D., and Messrs. Peter Boa, D. B Dott, J. I. Fraser, James Jack, Thomas Maben, and J. W. Sutherland.

The committee proposed that the London Board should consist of Professor J. R Green, of the School of Pharmacy; Mr. A. C. Seward, lecturer on botany, Cambridge; Professor Percy Frankland, Birmingham; and Professor Herbert Macleod, School of Forestry, Shooter's Hill; with Messrs. Druce, Gerrard, Holmes, Ransom, Saul, Symons, Tanner, and White, at present members of the Board.

The PRESIDENT stated that Mr. Corder was ineligible for election. Messrs. T. E. Greenish and G. S. Taylor retired owing to seniority, and as Messrs. John Fletcher and A. E. Tanner had been elected at the same time, a ballot was taken, resulting in the retirement of Mr. Fletcher. Messrs. Gibson and Nesbit had retired from the Edinburgh Board. Continuing, the President referred to the selection of Professors for the London Board, and to a Professor of the Society's school being one of them. His opinion was that, this school being a typical one, a representative of the staff should be in touch with the Board. That was a selection which he was quite prepared to justify, and after addressing himself in particular to the question of teachers being examiners, and the superiority of that system of examination over all others, he said that the number of candidates who went up from the School of Pharmacy was a comparatively small proportion of the candidates actually examined. This circumstance placed Professor Green on the same footing practically as the other professorial examiners. Moreover, the examinations were not competitive,

and he could not feel that it would be a hardship to any candidate to be examined by one of the Society's professors. It was proposed that one of the examiners in chemistry and botany should retire next year or the year following, so that the continuity of the Board should be maintained. Again referring to the importance of teachers being examiners, he mentioned that that policy was maintained in Edinburgh, and in the Report on the Teaching University for London. Finally, he said it might be asked why they did not appoint one of the School of Pharmacy professors of chemistry, and to that he replied that the duties of Professor Attfield and Professor Dunstan did not leave them the opportunity for the work that would be required on the Board.

Mr. Hampson, while agreeing entirely with the spirit of what the President had said, remarked that it was awkward at a late hour [at the meeting of the General Purposes Committee the night previous] to agree to a radical change in the Board, and especially introducing one of their own teachers. He could not help thinking, then, that this was a proposal which the late Mr. Sandford would not approve. At the same time, he believed they could not possibly have a better man than Professor Green.

Mr. Atkins followed on the same lines, saying emphatically that that day the Council were making history. He doubted the wisdom of placing one of their own professors on the Board, and he hesitated in consideration of the influence of an act of this kind upon competing or collateral schools. Although their own school was quite typical, he could not forget that the whole policy of this country was that the men placed in judicial positions should be above suspicion in matters that came before them.

Mr. Schacht, while voting for the motion, did not wish it to be thought that he agreed with all the President had said.

Mr. Cross hoped it would not go out that they were appointing a self-interested man. They had already agreed to the appointment of teachers, and Professor Green was connected with one of the smallest schools of pharmacy.

Mr. Martin (one of the committee) pointed out that Professor Bentley was an examiner in Sandford's day, and when there were collateral schools of pharmacy in the provinces teachers therein would be eligible for election.

Mr. Allen and Mr. Martindale followed in support of the President's views.

Mr. Harrison made a telling little speech, the pith of which was that the results of the examinations were the point at issue, and it was entirely to the interest of their qualification that the men who gave it should be above suspicion. The appointment of a professor from their own school was not likely to give confidence to the public.

After some remarks from Mr. Hills, the President replied, saying that members did not seem to be conscious that they were exercising a judicial function, and their very free utterances would probably lead to misunderstanding outside. He again maintained the superiority of the system of examination now inaugurated; and, after pointing out that the objections submitted were "all in the air," said that even though it were possible that any man, far less Professor Green, would prostitute himself in such a position of responsibility, the fact remained that Professor Green would have only a seventh part of the decision in passing a man through the Minor. Nothing unfair could be done without other six examiners combining, and that notion was utterly ridiculous.

The motion was then agreed to *nem. con.*, and, with thanks to retiring examiners, the public business of the day came to an end.

The theory that toothache depends on the presence of worms in decayed teeth is universally believed in China, and is demonstrated by a process peculiarly Chinese, which was investigated some years ago by Dr. Rogers, a dentist, of Hong-Kong. The native operator holds back the lips with a wooden spatula while he works around the offending tooth with a pointed instrument until there is a flow of saliva and blood; adroitly turning the spatula and placing the other end in the mouth, a piece of delicate paper attached to one side is moistened by saliva, and the worms confined under it are liberated, and become mixed up in bloody saliva. With a pair of forceps the operator picks them out and satisfies the patient.

OPENING OF THE NEW PREMISES IN EDINBURGH.

The new examination-hall and laboratories of the Pharmaceutical Society in Edinburgh, which we described two months ago, were formally opened by the President and Council on Friday, November 30. On the night previous a

Dinner of Scottish Pharmacists

was held in the Royal Hotel, Mr. J. Laidlaw Ewing, Chairman of the North British Branch, presiding, and Mr. Charles Kerr, Dundee, and Mr. Robert McAdam, Glasgow, acting as vice-chairmen. The company numbered about 130, and included the following:—On the right of the chair, Sir James Russell, M.B., Professor A. R. Simpson (Vice-president of the College of Physicians), Mr. Martin (President of the British Pharmaceutical Conference), Rev. Dr. Alison, Sir Thomas Grainger Stewart, M.D., Mr. Wm. Martindale, Professor T. R. Fraser, Mr. J. B. Stephenson, Dr. Littlejohn, Mr. Edward Evans (Liverpool), Dr. Murdoch Brown, Mr. Rymer Young, Professor John Gibson, Dr. Inglis Clarke, Mr. Hippolyte J. Blanc, A.R.S.A., and Dr. Stockman. On the left were Mr. Michael Carteighe, Professor Crum Brown, Mr. Hampson, Dr. P. A. Young (Treasurer of the Royal College of Physicians), Mr. Walter Hills, Mr. W. Bowman Macleod (President of the Scottish Branch Odontological Society of Great Britain), Mr. Richard Bremridge, Professor Patrick Geddes, Dr. Stevenson Macadam, and others. There was a good representation of local pharmacy and a number of country chemists were present. After dinner and the usual loyal toasts, Lieutenant-Colonel David Storrar, of Kirkcaldy, replying for the "Army and Navy,"

The Chairman gave the toast of "The Lord Provost, Magistrates, and Town Council of Edinburgh," coupled with the name of Sir James Russell, to whose work in connection with medicine and science, and as Lord Provost of the city, he referred.

Sir James Russell, in reply, spoke of the intimate connection which had always existed between the Corporation of Edinburgh and its University and the subject of education, and, referring to the opening of the new hall and laboratories, said the City Council rejoiced in everything that added to the convenience, usefulness, and influence of this and other societies.

Professor Sir Thomas Grainger Stewart proposed "The Pharmaceutical Society of Great Britain." He said it was always interesting to watch the process of evolution and differentiation in man's work. In the early stages of society each man did for himself well-nigh everything, and for long many duties continued to be performed by the same individual. But, as civilisation advanced, those duties became separated one from another. There were in remote periods those who were priests, physicians, surgeons, obstetricians, pharmacists, all in one. But these had become divided up, and now physicians and surgeons formed separate groups, as represented by the heads of the great Royal Colleges, and the pharmacists had grown into an independent body. There seemed no limit to the degree in which differentiation was taking place in medicine, and no doubt, on the whole, the advantages of specialisation outweighed the disadvantages, so long as it was not carried too far, and was associated in every instance with a high standard of general professional culture. The kind of specialist who threw a light like that of a policeman's lantern upon the individual subject was fitted to do good; but it was a disadvantage that sometimes those lantern-rays were surrounded by a wide area of utter darkness. Diffusion of light was necessary, as well as concentration on particular objects. It was not likely that differentiation should go far in the Pharmaceutical Society itself, but possibly even within it it might one day come that the field was too vast to be mastered and worked out by any individual, and that diffusion should take place in it. If the production of such remedies as antitoxin was to take a permanent place, that might of itself constitute a separate branch. The opening of the extended museum and laboratories in York Place marked an important epoch in the history of the Society. Facilities for study, with free access to the facts, was the first requisite for scientific work in the present day. The provision of proper rooms to work in, of

instruments and materials, with judicious guidance and efficient assistance, was the essential for research. The museum would supply the student of pharmacy with the one, the laboratory would supply them with the other. He recalled the days when the doctor had to be his own pharmacist, and when even he was trained by a mere apprenticeship and let loose to practise for weal or woe. But in these times the pharmaceutical chemist was educated and examined before he was permitted to practise his profession. Some might say, Was it a profession? In his opinion the marks of a profession, as distinguished from a trade, were that it was pursued by men of culture, and not mainly for the accumulation of wealth. The modern conditions implied that pharmaceutical chemists must be men of culture, and they were pursuing a calling which, although like other professions had brought its share of remuneration, yet was not mainly a matter of money-making, but involved many higher considerations. He would like to say a word about examinations, because he had been an examiner for a good while, and his faith in the process of examination did not grow. (Cheers.) He found that examinations were very useful up to a certain point, but that they were easily pushed too far. From what he knew of this Association he felt sure it would not push that examination too far, that it would keep the examinations in the right place and make them really useful. An examination which was reasonable was not one which rejected two-thirds of the educated candidates who presented themselves. (Cheers.) An examination which was reasonable was one which did not bring out the ignorant points of a man, but sought to elicit what he knew. He trusted and believed that the examinations of the Pharmaceutical Society were of a kind reasonable in their nature, sufficient to protect the public, but not unduly severe, and not unfair to those who had to submit themselves to them. (Cheers.) It was his privilege to associate with this toast the name—not of the Chairman, justly as one might name him in connection with such a toast, gladly as anyone in Edinburgh would name him, proudly as anyone would name him who had listened to his speeches. But beyond even the Chairman there rose heights of eminence. (Laughter.) There was a President of this whole Society who had been its President for a long series of years. He was a man not only eminent in regard to pharmacy, but of wide general culture and quite famous as an Alpine climber. Early in life he had climbed to the summit of the Presidentship of this Society, and he had never come down. (Laughter.) Mr. Carteighe was a man of whom the profession might be very justly proud, and he congratulated the Pharmaceutical Society in possessing in him so distinguished a President. (Applause.)

Mr. Michael Carteighe, in replying, said he confessed that he never expected as a mountaineer to have a position such as had been pressed upon him by the proposer of this toast. He never yet went up a mountain that he could not get down, but Professor Grainger Stewart had unfortunately hit on the only failure in his life—that he had got to the top of the Pharmaceutical Society and could not get to the bottom. (Applause.) He did not know whose fault it was. His friends in the South said, "Are you still President of the Pharmaceutical Society?" and he was obliged to say, with a little nervous trepidation and apology, that he was. Then his friends replied at once, "How well you must *do* them!" (Laughter.) Proceeding, Mr. Carteighe spoke of the objects of the Pharmaceutical Society, and, especially in regard to the Branch, said that no one thing in the course of his presidential career had given him greater pleasure than the fact that from this time pharmacy in Edinburgh, the Pharmaceutical Society in Edinburgh, and every member of the craft in Scotland would have a house and a habitation which he ventured to hope would be creditable to the historic traditions not only of Scotland, but of that great educational city of Edinburgh. (Applause.) He wished in his heart that, in addition to those powers of examination which they possessed, they had also that necessary power which was possessed by every other examining body with which he was acquainted—accountants, veterinary surgeons, dentists, *et hoc genus omne*: he wished they had power to enforce a proper curriculum and to adopt the wise suggestions which Sir Thomas Grainger Stewart had referred to, that their examinations might be relatively lenient and considerate, and might not be made so searching as to come within the domain of what they might call cross-examination and confusion. (Applause.) They hoped to continue at the work until they obtained parliamentary powers for being able to enforce a curriculum, and they did not intend to let that matter rest until they had achieved it—with their assistance. (Applause.) Mr. Carteighe then referred to the inclusion of professors of botany and chemistry in the boards of examiners, and the improvement in the method of examination he anticipated thereby. Continuing, he spoke of the development in Edinburgh within the last century of that advanced knowledge of true pharmacy which is comprised in the application of chemistry to pharmaceutical products and their manufacture. The Pharmaceutical Society regarded with the utmost satisfaction and congratulation the influence which the men who had distinguished themselves as pharmacists in Edinburgh had had on general education connected with pharmacy all the world over. (Applause.)

Mr. Chas. Kerr proposed "The Royal Colleges of Physicians and Surgeons," coupling with the toast the name of Professor A. R. Simpson.

Professor Simpson in responding referred to the remarks made by Mr. Kerr about proprietary drugs and pamphlets, and thought that was a matter which the Pharmaceutical Society should deal with.

Mr. Thomas Maben next gave "The Scottish Universities."

Professor Crum Brown replied. He said the science of chemistry was indebted far more to pharmacy than the art of pharmacy was indebted to it. Quackery, he said, was an enemy which all professions had to fight against, and it would only be when the people of the country were educated that they would understand that all that was nonsense, and turn for their wants and necessities to those who had proved themselves fit for the duties. Pharmacy, he said, had already reached that stage when they wanted drugs not only to cure diseases, but as helps in the way of improving, strengthening, and increasing health. So that the profession of pharmacy would not come to an end even if they abolished all those diseases upon which they were said to be fed, but would still increase and have a higher and more important position in society by turning their attention to improving and raising the condition of health of the community.

"The Medical Profession," proposed by Mr. John Johnston, was acknowledged by Professor T. R. Fraser. In the course of his remarks he alluded to the opening address of the President of the Medical Council, in which attention was drawn to the increase which had taken place in Scotland during the last twenty years of the number of registered practitioners, while during the last five years there had been a slight decrease in England and a very large decrease in Ireland. That must be of interest to the pharmacists, because as the number of medical practitioners increased the requirements for the work of pharmacists must increase also. Professor Fraser also referred to the danger of examinations, and warned his hearers that education must not stop when a person passes an examination.

"The Guests" were toasted by Mr. J. B. Stephenson, and the Rev. Dr. Alison, Mr. N. H. Martin, and Mr. Hippolyte J. Blanc, A.R.S.A., replied.

Mr. Walter Hills proposed "The North British Branch," which was acknowledged by the Chairman.

Mr. W. Martindale, London, gave "The Board of Examiners for Scotland," to which Mr. John Nesbit replied.

Mr. Edward Evans gave "The Chairman's Health," and Mr. Hampson "The Vice-chairmen."

Then the long list of toasts was brought to an end by the company drinking heartily to the health of Mr. Richard Bremridge and Mr. Rutherford Hill. This was capped with "Auld Lang Syne," and the company dispersed.

On Friday evening there was an

Official Reception and Conversazione

to inaugurate the new premises. The whole suite of rooms at 36 York Place was thrown open. They were profusely decorated for the occasion with plants, kindly lent by Mr. James Buchanan, of Oswald House. The company, which included about 350 ladies and gentlemen, were received in the Examination-hall by the President of the Pharmaceutical Society and Mrs. Carteighe; Mr. J. Laidlaw Ewing, Chairman of the North British Branch, and Mrs. Ewing;

Messrs. Hampson, N. H. Martin (with Mrs. Martin), W. Martindale, Walter Hills, J. Rymer Young, John Johnston and D. Storrar. Among those present were noticed Dr. Clouston, President of the Medico-Chirurgical Society of Edinburgh; Dr. Bruce Goff, President of the Faculty of Physicians and Surgeons, Glasgow; Bailie Gulland; Councillor J. P. Gibson; Mr. H. Somerville, procurator-fiscal; Mr. J. Falconer King, city analyst for Edinburgh; Mr. David Lewis, treasurer, Heriot's Hospital; Mr. T. B. Morison, advocate; Mr. H. Bellyse Baildon, &c. An exhibit of rare plants from the Royal Botanic Garden was laid out in the chemical laboratory, and also an exhibit of apparatus by Mr. Wm. Hume. In the dispensing laboratory there were a series of interesting microscopic slides, illustrations of Chinese art-colouring, &c. While the company was inspecting the rooms an instrumental party played a selection of music, and later on a vocal and instrumental programme was gone through. Refreshments were served in the museum and board-room. At the interval in the musical programme the President took the opportunity of expressing his gratification at being present at the opening of the new hall and laboratories, which would be of very great advantage in conducting the examinations in Scotland. They were very greatly indebted to Mr. Laidlaw Ewing, the chairman of the executive under whose directions these operations had been carried to a successful issue. He also paid a compliment to Mr. Rutherford Hill.

Mr. Laidlaw Ewing acknowledged the President's remarks, and stated that he had been much assisted by Mr. J. B. Stephenson, Mr. Neshit, and Mr. Hill.

At the end of the conversazione, when Mr. and Mrs. Carteighe and Mr. and Mrs. Ewing left, the company assembled near the entrance and heartily cheered them.

The Winter Session.

SOCIETY OF CHEMICAL INDUSTRY.

London Section.

The bill of fare provided for the meeting of the above Society on December 3 was sufficiently appetising to attract a very large attendance, but it was also so satisfying that no progress beyond the first course was made.

The paper by Dr. Kuhn, of Paris, on

The Sterilisation of Alimentary Liquids,

and the discussion which it evoked, took up the whole of the evening and the remaining items were consequently postponed to a future meeting.

Dr. Kuhn, the audience incidentally learned, is the son of the famous brewer of that name who was associated with Pasteur during the time that he was engaged in the observations which culminated in the production of his classical treatise, "Etudes sur la Biere"; and the early training of Dr. Kuhn himself was carried on under the eye of the same master. As the author does not speak English, Mr. de Mosenthal had been deputed to translate and read the paper.

The pathogenic properties of water are usually regarded as being due to the presence of morbific organisms, and the means ordinarily adopted for their removal may be conveniently divided, said the author, into three categories—(1) Chemical, involving the use of antiseptics; (2) Physical—excluding heat—involving the application of intense cold, electricity, or filtration; (3) Heat.

The use of antiseptics has been rejected by physicians on hygienic grounds. Filtration will not ordinarily effect sterilisation, or if it does it is at the expense of some of the essential constituents of the milk, wine, or beer under treatment. Alternating currents of electricity have not realised the anticipations of the originators of the process. Cold, even of −200° C., as Raoul Pictet showed, only suspends the vital functions of certain organisms, and consequently heat is the only known method at present available for ensuring sterilisation.

The objections to heat as ordinarily applied were next discussed, and then the conditions regarded as essential to the success of any method involving the use of heat were postulated.

1. The heat should be applied rapidly, and the liquid cooled rapidly; the chemical and other detrimental effects are secondary to the heating, and if the intermediate temperatures are rapidly passed through, these secondary actions are not set up.

2. There must be an equal distribution of calorific effect; overheating one part causes coagulation and precipitation of coagulable material, whilst underheating fails to sterilise the liquid.

3. The apparatus must be absolutely airtight to prevent the escape of any gas or volatile aromatic principle.

4. The re-absorption of all gases and vapours must be ensured, so that the liquid may retain its characteristic properties. In this connection Dr. Kuhn said he had proved that a definite coefficient of pressure and of solution is established in his apparatus, based upon the laws (*a*) that the tension of gases and vapours varies directly as the temperature, and (*b*) that the liquid under treatment expands directly as the temperature.

5. All chemical action between the metal of the sterilising-apparatus and the liquor must be eliminated. These reactions are due to the action of the organic acids on the metal, and, in some cases, to the action of the metallic hydroxides on the albuminoids of the liquor under treatment. Silver is found to be the only metal capable of giving good results, consequently the interior of the apparatus is silver-plated.

A description of the apparatus and the mode of working was then given. A vessel having a length equal to six times its diameter has a series of tubes packed inside very much like a jacketed tubular boiler; the process, in a few words, consists in filling into the external vessel the liquor which is to be sterilised, and effecting sterilisation by passing steam through the pipes which are now surrounded by liquor. After standing at the necessary temperature for fifteen minutes the steam is withdrawn, and cold water—or, in the case of lager beer, iced water—is made to circulate in the tubes. In the course of a few minutes the temperature of the now sterilised fluid will be low enough to permit of it being drawn off and stored in permanent receptacles with the usual precautions.

Uniformity of heating is ensured by oscillating the tube. The sterilising temperature of wine, beer, and milk, under the pressure of six atmospheres, is 65° C., and about six operations can be carried through in an ordinary working-day.

A diagram was also shown of an apparatus capable of sterilising 22,000 gallons of water per diem; and the paper concluded with an account of crucial experiments conducted in various bacteriological laboratories on the Continent, in which very satisfactory results followed the treatment on Meuse water and on lager beers, and reference was made to the possible applications of the process, including the preparation of beers for export, the sterilisation of wine "must" to permit of it being sown with a pure culture, the preparation of champagne, the preservation of meat-extracts and of pharmaceutical liquors, and the sterilisation of water for towns.

Amongst those who took part in the discussion were Messrs. Gordon Salamon, Hooper, Frank Wilson (President of the Institute of Brewing), Rideal, Morris, David Howard, Johnson, and Cresswell.

CHEMISTS' ASSISTANTS' ASSOCIATION.

At the meeting of this Association, on November 29, the evening was devoted to "Short Papers by Members." The first, by Mr. Long, was

A Retrospect of the Treatment of Diseases by Inoculation.

The author said the premised existence of micro-organisms dated back to the middle of the sixteenth century, when Kucher expressed the belief that diseases were attributable to definite micro-organisms. This, however, was before the introduction of the microscope as we know it, for the instruments at his command were so crude that he failed to discover any of these minute bodies himself, and it was not

until some years later that Lenwenhoek, who may be considered the father of the microscope, was able to prove his theory. Leuwenhoek described the organisms which he had observed in letters to the Royal Society in 1675, and from the woodcuts prepared at the time, as well as his own description, it is easy to recognise vibrios, sparilla, and some other forms of bacterial life. Linnæus placed all micro-organisms in one order, but in 1786 Muller, who had made a careful study of the subject, based a classification upon form, mode of progression, and other biological characters. Needham, after devoting much time and labour to the subject, put forward the "spontaneous development theory." His conclusions were based chiefly upon the fact that infusions which had been sterilised by boiling eventually underwent decomposition, though kept in sealed flasks. This theory was vigorously opposed, and was disposed of by Tyndall, who demonstrated germination by spores, and showed that the errors of Needham and his opponents had been due in great measure to imperfect sterilisation.

As soon as Leuwenhoek had proved the existence of micro-organisms, many medical men went so far as to attribute all diseases to their agency. This led to the theory being ridiculed and disputed; and as, of course, no proofs were forthcoming, the idea fell into obscurity, and for a long time the subject of the relations between micro-organisms and disease was quite neglected. In 1837, Boehm and others found bacilli in the dejecta of cholera patients; but Davaine, in 1850, was the first to attribute specific changes in the the animal organism to bacterial agency. He found bacilli in the blood of a sheep which had died of splenic fever; and experiments, based upon this discovery, led him to believe that the disease was caused by the micro-organism, whose multiplication in the blood produced changes in that fluid of the nature of fermentation, resulting in the death of the animal. By laborious experiments in silkworm-disease, Pasteur was enabled to confirm this hypothesis; but no causal connection was proved until 1877, when Koch gave a full description, with the life-history, of the anthrax bacillus. He proved conclusively that the disease was caused by the organism by showing that the disease could be induced artificially—by inoculating certain animals susceptible to anthrax with minute quantities of pure cultures of the bacillus. This discovery was followed by a still more important one by Pasteur, who observed that in non-fatal cases of chicken-cholera the disease did not recur, and it occurred to him to obtain a virus which would produce a mild form of the disease. This weakened virus he obtained by repeated cultivations of the bacillus in chicken broth, each succeeding cultivation becoming weaker than the last, until, eventually, one was obtained which had the desired effect, and gave complete protection against inoculation with a virulent culture. This experiment threw some light upon the action of cowpox virus in vaccination, for although in constant and extensive use since its introduction by Dr. Jenner in 1798, its *modus operandi* had always been shrouded in mystery.

Pursuing his investigations Koch succeeded in isolating the bacillus of tuberculosis, but unfortunately his efforts to combat that formidable disease did not meet with much success. Roux, in 1889, in inoculating for diphtheria, instead of using pure cultures of the bacillus, utilised the toxins which the bacilli produced. These he obtained from the culture by precipitation after the organisms had been filtered out, and thus was able to give immunity by the introduction into the tissues of a chemical substance instead of a living virus.

The latest advance is also due to the same scientist. Much difference of opinion still exists as to the nature and mode of action of antitoxin. Whether it is a product of the bacteria themselves, or is built up in the cells of the immune animal, and whether its action upon the diphtheritic poison is direct or indirect, is still undecided, but up to the present the results following its employment seem to leave little room for doubt as to its efficacy.

NOTE ON INFUSION OF SENNA.

By Wm. Moore.

Infusion of senna is observed to slowly deposit crystals when dispensed with Rochelle salt, and a muddy precipitate when dispensed with sodium phosphate. These two salts are recommended in medical works as specially suitabl adjuncts to senna. Mr. Moore had found the crystals in the Rochelle salts and senna mixture to be practically pure calcium tartrate produced by double decomposition between the calcium salts of senna and the alkaline tartrate. The precipitate in the senna and sodium phosphate mixture contained upwards of 5 per cent. of inert mucilaginous matter, the remainder being calcium phosphate, with nearly one-ninth of its weight of magnesium phosphate. The deduction, therefore, was that, except for unsightliness, the mixtures are not materially affected by the precipitate, the acids natural to senna merely becoming transformed from soluble calcium to soluble sodium and potassium salts.

THE B.P. SOAPS.

By W. H. Martindale.

The author reported a series of experiments on the soaps of the B.P. with the object of ascertaining the amount of water and the percentage of alkali they contain. No such limits are included in the B.P., but the U.S.P. 1890 requires that Castile soap shall not contain more than 36 per cent. of water and a limit of alkalinity equal to ·186 per cent. of sodium oxide; whilst a limit of alkalinity is also placed upon the Sapo kalinus of the German Pharmacopœia equal to ·235 of potassium oxide. Mr. Martindale's experiments showed the following results:—

—		Total Fatty Acids	Total Alkali (Na_2O)	Total Alkali (K_2O)	Free Alkali (Na_2O)	Free Alkali (K_2O)	Free Fatty Acid	Silica	Ferric Oxide	Water, traces of Chlorides, Sulphates and Pigment
Sapo animalis	1	65·01	8·65	—	nil	—	·1252	—	—	26·40
" "	2	66·17	9·81	—	nil	—	·1521	—	—	24·30
" "	3	64·99	8·15	—	·20%	—	·1818	—	—	26·19
" "	4	63·70	7·75	—	·2811	—	·2991	—	—	28·21
Sapo durus	1	66·66	7·236	—	nil	—	2·40	—	—	26·10
" "	2	63·90	7·57	—	nil	—	1·00	·13	—	30·13
" "	3	60·12	9·73	—	nil	—	·508	—	—	34·22
" "	4	65·32	10·30	—	·0325	—	2·351	—	—	23·397
Sapo durus (mottled)	1	65·37	8·03	—	·010	—	1·460	·262	·144	38·12
" "	2	69·59	8·24	—	·038	—	·390	·310	·261	21·401
" "	3	64·73	7·45	—	·175	—	·135	·146	·335	27·22
" "	4	75·2	7·56	—	·1498	—	·111	·755	·292	17·685
Sapo mollis	1	49·31	—	11·13	—	·012	—	·315	—	38·781
" "	2	51·01	—	11·506	—	trace	—	—	—	37·042
" "	3	44·178	—	10·05	—	·421	·321	—	—	46·01
" "	4	49·25	—	10·87	—	·197	·507	—	—	39·777
" "	5	32·71	—	9·71	—	trace	·553	—	—	58·083
" "	6	49·06	—	7·01	—	·310	·421	—	—	43·741
" "	7	57·425	—	11·41	—	·5331	·3301	·557	—	31·670
" "	8	46·99	—	10·00	—	·486	·322	—	—	42·701

He acknowledged the assistance of Mr. J. O. Braithwaite in the work. The experements had been made in Messrs. Wright, Layman & Umney's analytical laboratory. In replying to a discussion Mr. MARTINDALE said the method used for estimating was to weigh and dry the sample, then dissolve in S.V.R., filter and estimate causticity of alcohol in filtrate, then wash thorough what remained on filter and titrate carbonated alkali with decinormal solution.

Mr. GUYER read a note on "The Flowers of an Inga," publication of which we reserve.

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

A PAPER on "The Motive Power of Niagara Falls" was read before this Association by Mr. GIEBELER, on Wednesday, November 28. There was a good attendance of members, with Mr. C. G. Yates in the chair.

LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY.

AT the meeting held on November 29, Mr. R. H. MITCHELL (President) remarked that notwithstanding the numerou

notes which had been published, medical men continued to prescribe

Spt. Æther. Nit. with Antipyrin.

He had recently had the following prescription :—

Antypyrin.	ʒij.
Spt. æther. nit.	ʒiij.
Aq. camph. ad;	℥vj.

M.

As he was unable to communicate with the prescriber he dispensed it without the spt. æther. nit.

Mr. Frank Walker remarked that a medical man in his district was continually prescribing the two things together, and that he never found any ill effects from the combination of the two articles.

The President stated that he had found the

Cement

suggested in the *C. & D.* Diary for 1894 very efficacious—he had succeeded in mending a terra-cotta filter after everything else had failed. The cement consisted of shellac 4 parts, and S.V.M. 3 parts. He had also found that the process suggested by Squire for making

Syrupus Tolutanus

—*i.e.*, rubbing the balsam with part of the sugar, digested for twenty-four hours, and dissolving the rest of the sugar without heat, had been found to give a much finer syrup than that produced by the B.P. process.

Ammon. Bicarb.

Mr. S. C. Sproatt said that he had recently seen ammon. bicarb. in a prescription, and according to Redwood this was formed by powdering ammon. carb., and exposing to the atmosphere. It was remarked that it was understood that the B.P. ammonii carb. was intended, as the bicarbonate was formed on its being dissolved.

What is Plumbi Subacet.?

Mr. Lloyd said that he had recently come across plumbi subacet. in a prescription. He had always been in the habit of dispensing plumbi acet. until it was suggested to him that an equivalent quantity of liq. plumbi should be used. The opinion was very generally expressed that plumbi acet. was intended.

Mr. W. A. Cockshott then read his paper on the

Connecting-links between Herbalism and Pharmacy.

In this paper the author mentioned that a type of herbalist superior to the velvet-waistcoated and slippered knave occasionally found in large towns, is met with in West Yorkshire and East Lancashire where, owing to the rapid growth of the manufacturing towns and the consequent influx of people from the country districts, there is a big demand for dried herbs such as the people were wont to gather for themselves. The herbalist flourishes on this demand, but his stock is not confined to vegetable remedies, though his customers may think so, for mag. sulph. and pot. bicarb. frequently enter into his concoctions, and his arsenic plasters for cancer are not unheard of. The herbalist's customers have a deep-rooted prejudice against the use of chemicals, and it is vain to suppose that the old dispute about galenicals *v.* chemicals is settled. It is a living problem in these districts now. But the demand for herbs is not met by herbalists only, as chemists and druggists find that it is an important part of their business (dispensing being a rare thing there). Mr. Cockshott proceeded to speak of the popular belief in so-called "Natural Remedies," and referring to the twenty indigenous plants in the Pharmacopœia said that all but the poisonous ones are in popular use especially dandelion, valerian, pennyroyal, and broom. Broom usually has a piece of quackery connected with it. The herbalist keeps two drawers, one for he-broom and the other for she-broom; it might be supposed that the plant was diœcious, but that is not so. The fact is broom is used as a diuretic; and he-broom is for sale to men, and she-broom to women.

A list compiled from Squire and Martindale gives a total of forty extra-official indigenous plants, and of these forty only one, *Convallaria majalis*, appears to be in the running for official honours, and this one is an introduction from the herbalina of the Russian peasants, by whom it has long been used. Most of the drugs in this list are from old Pharmacopœias, and others are popular remedies which have attracted the attention of the medical profession—*e.g.*, *Verbascum Thapsus*, *Galium Aparine*, and *Symphytum Urtica*. Others pose as brand-new importations from the United States, such as *Rumex*, *Vinca major*, *Viola*, and *Viscum*. Outside this forty there are in Squire and Martindale several American plants which have very near relatives in this country, and those competent to say so have said that our own species are equally useful as the foreign—*e.g.*, *Viburnum prunifolium* and *V. Opulus*. Many of our herbs can be lumped in groups, as being little else than duplicates of each other. The mallows, for instance, are mostly mucilaginous, though perhaps *Althæa* is the best of the lot. All the English members of the gentian family are bitter tonics, and *G. lutea* has only its cheapness and abundance to thank for preceding *Menyanthes*. The characteristic of the rose family is astringency, and many are used with this object—*e.g.*, tormentil. The *Cruciferæ* contain organic compounds of sulphur—*e.g.*, mayflower, horseradish, scurvy-grass, and hedge-mustard—and are used as anti-scorbutics. Mr. Cockshott then spoke of the use of arum for neuralgia, because "Tonga" is made in part from a plant of the same natural order, and the antiseptic properties of helenin, the active principle of elecampane. Several other common plants were mentioned, such as mandrake and black bryony (Solomon's seal), as common objects in the herbalist's shop.

Mr. G. C. V. Last followed with a paper on the "Rarer Plants of the Liverpool District," in which he gave a description of the geological nature of the district for fifteen miles round Liverpool, and indicated the spots where the choicest specimens were to be found. This paper was illustrated with some particularly well mounted and preserved specimens.

Business Changes.

Mr. Frederick J. Muskett, M.P.S., has taken the chemist and druggist business hitherto carried on by Mr. Longman at the Guildhall Pharmacy, Rochester.

Mr. Thomas Lumsden, chemist, 17 High Street, Linlithgow, has taken over, and will carry on, the business of the Medical Hall, 128 High Street, Linlithgow, carried on for a number of years by Mrs. Mary Gibson.

Mr. John Green, dispensing and family chemist, Wood Street, Swindon, has taken into partnership his son, Mr. John Hugh Homer Green, and in future the business will be carried on under the title of John Green & Son.

Mr. B. Waterhouse (late G. A. Lockwood), of 30 Sheffield Moor, has disposed of his retail drug and chemical business, at 115 Broad Lane, Sheffield, to Mr. W. F. Shortcliffe, who has been assistant with him for the past six years.

Messrs. R B. Schier & C. F. van Awrooy, carrying on business as wholesale druggist in Amsterdam, under the style of Schier & Van Awrooy, announce that their firm has been dissolved by mutual consent, and that the business will be wound up under the style of "Schier & Van Awrooy in Liquidation." Mr. R. B. Schier has formed a partnership with Mr. A. J. Remy for the purpose of conducting a business on the same lines as that of the late house of Schier & Van Awrooy. The style of the new firm is Schier & Remy.

Mr. A. W. Waring, R.D.S., in announcing that he has taken over Messrs. Corbyn, Stacey & Co.'s Poultry business and removed it to 3 Bucklersbury, says :—"The fact that I have been with Messrs. Corbyn, Stacey & Co. for the past twenty years, and manager for the greater portion of that time, and also that the present staff remains with me, will, I trust, be sufficient guarantee that the reputation of my predecessors will be fully maintained. I have engaged the services of an experienced analytical chemist for all analyses entrusted to my care. As a dental surgeon of many years' experience, I take this opportunity of announcing that, in addition to my practice at Beckenham, I have provided convenient consulting-rooms at the above address."

Legal Reports.

Mineral-water Trade-marks: Saxlehner *v.* La Compagnie Générale d'Eaux Minérales et de Bains de Mer.

This is an action for the rectification of the Register of Trade-marks by striking out four labels registered by the Compagnie Générale, their numbers on the register being 49,266, 49,493, 49,494, and 50,050. It was mentioned on Friday, before Mr. Justice Stirling in the Chancery Division of the High Court by Mr. Buckley, Q.C. (with whom was Mr. Waggett) for the plaintiff, Mrs. Saxlehner. Counsel stated that he mentioned it only with a view to getting a time fixed within which the respondents should file their evidence. The notice of motion was given so long ago as June 24, 1891. The applicant's evidence was filed by July 30, 1891. The Compagnie Générale had notice, and they appeared to support their labels. The applicants then pressed them to complete their evidence, and the respondents in effect said that they had it all ready or practically ready, then. But there were concurrent proceedings against them in Hungary to rectify the register of marks there; and pending the result of these proceedings it was so arranged that no further proceedings were taken upon this motion. On May 25 of this year an order was made in Hungary removing the labels; and thereupon his client again came to this Court with an application to remove them from the English register. Up to the present time, the respondents had put in no evidence at all. He was willing to let the motion stand over until the last day of the present sittings to see whether or not the respondents' evidence was complete, so as to get the matter ready for trial. The applicant's solicitors wrote to the respondents on July 9, 1894, stating that they were instructed to restore the motion, but giving them an opportunity of consenting to the expunging of the labels after what had passed at Buda-Pesth. In October they wrote again, saying that now that the decision of the Hungarian Chambers of Commerce was known, they would restore the motion. He asked that the day before the last motion-day of the present sittings be fixed for the respondents completing their evidence.

Mr. John Cutler, counsel for the respondents, said he had only been instructed in this matter on the previous night, and consequently he came quite new to the case. But no notice had been given of the intention of the applicants to read the letters which Mr. Buckley had laid before the Court. If notice had been given, the respondents would have filed an affidavit to explain the circumstances of the delay. The further evidence required consisted solely of labels and proceedings in the Hungarian tribunals, and the only way in which such evidence could be got from Buda-Pesth, besides getting witnesses to come over here, was by letters of request. No affidavits could be legally taken in Hungary, and it was difficult to procure evidence there. His Lordship would bear in mind that the whole thing went to sleep for a couple of years; and the fact must not be lost sight of that negotiations had been going on recently, the latest letter being dated on the day previous. He therefore thought the Court would give a much longer period than his learned friend had mentioned to prepare the evidence in a case of this magnitude.

Mr. Buckley reminded the Court that a summons for a letter of request was taken out by the respondents in the summer of 1891.

Mr. Cutler asked the Court to allow the respondents six weeks to file their affidavits, and that without prejudice to any application that might be made for a letter of request upon Buda-Pesth.

His Lordship said he would allow the motion to stand over for three weeks. It could then be mentioned again.

Were the Goods Delivered?

Before Mr. Commissioner Kerr, in the City of London Court, on November 30, Messrs. Davies, Turner & Co., carriers, sought to recover a sum of money for delivering certain goods in Scotland, for the defendants, Messrs. Bowers Bros., 89 Blackfriars Road.

The representative of the defendants said they objected to the claim, because the plaintiffs had not delivered the goods to the Scottish Drug Company as directed.

Mr. Tofts, the plaintiffs' representative, said they tendered the goods to the Scottish Drug Company, and they could not be required to do more as carriers.

The defendants' representative said they had a letter from the Scottish Drug Company saying the goods had not been delivered.

Mr. Tofts said they, on the other hand, had a letter from the Midland Railway Company saying that the goods were tendered.

Mr. Commissioner Kerr said he could not look at either letter; neither of them was evidence. That was as it should be, for it was easy to tell a falsehood in a letter. (Laughter.)

The defendants' representative said the plaintiffs charged them 2*s.* 6*d.* for correspondence and postage.

Mr. Commissioner Kerr said that would not be allowed.

Mr. Tofts said it included the warehousing. They had had to warehouse the goods for six or seven weeks.

The defendants' representative said what the plaintiffs' representative had just stated was not upon the account.

Mr. Commissioner Kerr thought it a pity for the parties to quarrel, and he referred the case to the Assistant-Registrar for him to inquire into.

Question of Quality of Cream of Tartar.

In the City of London Court on Friday, November 30, the case of Bowman *v.* Thumwood, which has already been mentioned in these columns, was disposed of before Mr. Julian Robins, Deputy Judge, and a jury.

The plaintiffs, Green, Bowman & Co. 28 St. Mary-at-Hill, E.C., sought to recover 3*l.* 14*s.* for certain cream of tartar supplied to the defendants, Thumwood & Maynard, of 226 Clapham Road.

The defendants had paid 17*s.* 6*d.* into court, and said that was all they owed the plaintiffs. They complained that the cream of tartar delivered to them was inferior to that which was intended to be bought. The defendants said the plaintiffs offered to change the goods, but that when they sent them to the plaintiffs' place of business, they would not take them.

The plaintiffs said they did not admit any inferiority in the cream of tartar. They agreed to change it if the defendants sent it back as soon as they complained. The defendants, however, allowed some weeks to go by, and then the plaintiffs did not see why they should change it. The cream of tartar sent to the defendants was a portion of a parcel of 5 tons supplied to other customers who had not raised a complaint.

Mr. Commissioner Kerr had adjourned the case as there was a conflict in the testimony, and he said the matter must be decided by a jury.

The Deputy Judge said he thought the defendants had used a large quantity of the cream of tartar before they found out there was anything the matter, if there was really anything to grumble at.

The jury found for the plaintiffs for the amount claimed, and judgment was given accordingly, with costs.

Caustic Potash and Caustic Soda.

At Liverpool Assizes, on November 29, before Mr. Justice Kennedy and a special jury, an action was tried between Messrs. J. R. Peace & Co., chemical-manufacturers, Liverpool, and Messrs. Mayall, chemical-manufacturers, Manchester. Messrs. Peace claimed that they had sold to Messrs. Mayall ten tons of caustic potash for 202*l.* 12*s.* 2*d.* They had been paid 190*l.* on account, and they sued for the balance. Messrs. Mayall, on the other hand, claimed the repayment of the 190*l.*, and a further sum for expenses to which they had been put, alleging that the commodity sold to them was not caustic potash, but a mixture of stuff which in any merchantable sense was absolutely worthless. On the other side it was admitted that the caustic potash was adulterated with caustic soda, a much cheaper commodity, after it left their possession. They suggested that caustic soda and potash were very similar in appearance, and it was quite possible that some of the former accidentally got mixed up with certain of the drums of caustic potash

supplied. The jury found that there had been a breach of warranty, that a fair compensation for the loss which would naturally arise would be 133*l.* 13*s.*, the difference in value between the article warranted and that supplied by the plaintiffs would be 103*l.* 15*s.*, and they allowed 10*l.* 6*s.* 6*d.* for the purchase of some caustic potash at a higher price to replace that delivered by Messrs. Peace. His Lordship gave judgment for Messrs. Mayall for the full amount of the claim, with costs, and for them also on the counter-claim.

In re Mandall's Patent: Another Patent for a Medicine Revoked.

In the Chancery Division of the High Court of Justice, on Monday last, an application was made to Mr. Justice Romer that this matter might be placed in the paper as a short cause, the respondent having intimated that he did not intend to further oppose the petition. Mr. Justice Romer acceded to the application.

On the petition being called on on Wednesday,

Mr. Roger Wallace said that this was a petition for the revocation of letters patent, No. 6,178 of 1893, granted to Edward Mandall, of Tower Works, Stockton-on-Tees, for a new and improved utilisation of liquorice and other ingredients for the manufacture of certain medicinal compounds. The petition was presented by the Pharmaceutical Society of Great Britain, and leave to present the petition was given by the Attorney-General, the Pharmaceutical Society having no *locus standi* without this leave. The particulars of objection attacked the description of the patent, and also alleged that there was no subject-matter for the grant of letters patent; also that this invention was anticipated by certain users. His learned friend, Mr. Bonsey, was instructed to consent, and he would ask his Lordship for an order that the patent be revoked, and that the respondent be ordered to pay the petitioners their costs of the petition, to be taxed by the taxing-master.

Mr. Broderick said he appeared for Mr. Bonsey to consent to the patent being revoked. On the question of costs he did not know whether his Lordship would give the costs of obtaining the fiat of the Attorney-General.

Mr. Justice Romer said the petitioners were entitled to their costs.

Mr. Wallace said that all he had to ask for was an order that the respondent pay costs. The question whether the costs of obtaining the Attorney-General's fiat would be allowed would be dealt with by the taxing-master.

Mr. Justice Romer: Yes; the taxing-master will deal with that.

Order accordingly.

Acetic Acid and Vinegar.

In a vinegar-prosecution at Dukinfield, on November 29, in which a grocer named Ivill was the defendant, it transpired that the vinegar was supplied by Mr. Wm. Hy. Waterhouse, chemist and druggist, George Street, Dukinfield, and the public analyst certified that it was not a sample of malt vinegar, but a mixture of acetic acid and water which had been coloured.

Mr. Waterhouse gave evidence, and stated that the vinegar supplied by him to defendant was in all respects as good as, and in many respects superior to, vinegar sometimes sold under the name of malt vinegar. The nature and substance of true vinegar was acetic acid and water. No vinegar could exist or be made which did not consist of those two ingredients. It was superior to the vinegar resulting from the fermentation of malt liquors. He did not dispute the finding of the analyst. The vinegar was composed of pure acetic acid, water and extract of malt, but was not distilled. For table use or for pickling-purposes it was far superior to malt vinegar.

The Bench convicted, but stated that acetic acid was not injurious to health, therefore no damage was done to society by selling it. But defendant was charged with selling it as malt vinegar, and he was fined 5*s.* and costs.

Another tradesman, named Wilde, who also sold vinegar made by Mr. Waterhouse, was fined 5*s.* and costs for a similar offence.

Yorkshire Relish and the Birmingham Vinegar-brewery Company (Limited).

As the action Powell (representing Goodall, Backhouse & Co., Leeds) *v.* the Birmingham Vinegar-brewery Company (Limited) is now not far down on the list of cases now being heard by Mr. Justice Stirling in the Chancery Division of the High Court, an application was made on Tuesday to his Lordship asking him to fix a day for the trial. Mr. Graham Hastings, Q.C., for the plaintiff, made the application. He explained that he was not asking that precedence should be given to it, but it was desirable that a day should be fixed, because witnesses would have to be brought from all parts of the kingdom.

Mr. Buckley, Q.C., for the defendants, said he also had an application to make in the matter. It was a case of Yorkshire Relish, and people would be called from all parts of the country——

His Lordship: I hope not.

Mr. Buckley, continuing, said that people in that trade were exceptionally busy at the present time, and he had affidavits on the subject showing that it would be exceedingly inconvenient for travellers and grocers to attend just now. He asked that the action be not taken before Christmas.

His Lordship said the circumstances mentioned by Mr. Buckley formed a very good reason for not postponing the trial. They would get rid of a vast amount of useless witnesses.

Mr. Buckley said the material witnesses were people in the trade who could come after Christmas.

Mr. Hasting opposed any delay.

His Lordship thought that, under the circumstances, the fair thing was to let the case take its chance. He would not encourage either party to bring up unnecessary witnesses. Accordingly no order was made upon either application.

Alleged Counterfeiting of Medicine-stamps on Beecham's Pills.

At the Dunedin City Police Court, New Zealand, on October 15, William Edward Hanlon was charged with, on February 6, uttering and using a counterfeit adhesive stamp used for revenue purposes by the Government of Great Britain, and, further, with counterfeiting a certain adhesive stamp used for revenue purposes by the Government of Great Britain. Mr. B. C. Haggitt conducted the prosecution, and Mr. Solomon defended.

Mr. Haggitt said the stamps counterfeited and uttered by the defendant were known as medicine-duty stamps, which were issued and used by the Inland Revenue Department of the United Kingdom. After referring at length to the differences between the genuine boxes of pills made by Beecham and the counterfeits made by the defendant, counsel said the stamps in question were all issued by the Commissioners of Stamps at the Inland Revenue Department at Somerset House, London. The plate-letter was altered periodically. They began, for instance, with A, and after issuing a certain number with that plate-letter they altered the letter to B, and so on. The stamp in question had E4 upon it, and was issued in 1892. The number, which was 4 in this case, represented the number of the stamp on the sheet on which it was printed—the numbers running from 1 to 12. There were never more than twelve stamps on a sheet. Mr. Glover, who was the representative of Beecham in New Zealand, had examined some hundreds of these fraudulent stamps there, and he found in every instance that the plate-letter was E and the number 4, showing clearly that the genuine stamp from which the stamp in question was counterfeited was E4. The defendant was charged with counterfeiting one stamp, but he might have been charged with counterfeiting hundreds, because to every person to whom a box was sold a stamp was uttered.

Edward Glover, employed by T. Beecham & Son, said that the stamp produced was issued by the English Government, and was specially appropriated to Beecham's pills. These stamps were issued in double sheets, twelve stamps on each side, and twenty of these sheets made up a quire, of which the firm got 200 weekly, at a cost of 600*l.* Witness described the difference between the genuine stamps and those found on the boxes issued by the defendant. Since

coming to the colony witness had examined several hundred stamps on covers round boxes issued by the defendant, and all these stamps differed from the genuine stamp. Witness had bought boxes from Mr. Rutherford, grocer, and also from Mr. Peterson, grocer. The box produced he bought from Mr. Shepherd, grocer, of Albany Street, and on buying it he got Mr. Shepherd to put his initials on it. The stamp was a counterfeit.

Cross-examined: The genuine stamp he had in his possession he brought from England with him, and the counterfeit he got from a box obtained at Kempthorne's. He had never compared an E plate stamp with an F stamp or a G stamp, but he knew that this stamp had been submitted to the English Government, and they said it was a forgery.

Mr. Solomon produced stamps to show that the evidence given by witness as to the difference in colour between the counterfeit and the genuine stamps was not reliable, and produced genuine stamps which he contended differed in colour.

Witness held that one of the genuine stamps produced had been in water, which had made it lighter in colour.

David G. Shepherd, grocer, Albany Street, said he bought between ten and twelve gross boxes of pills from defendant, believing them to be genuine. The box produced was the one he gave to Mr. Glover, and the stamp he now saw was on it when he gave it to him. The remainder of the boxes —about five gross—were returned to Messrs. Kempthorne, Prosser & Co. Cross-examined: When he gave the box to Mr. Glover he had no other boxes of Beecham's pills in his possession except those he had obtained from defendant.

John Mitchell, of the firm of Fergusson & Mitchell, said he examined the two lithographs produced. They were not printed off the same plate. There was a difference between them.

Mr. Solomon for the defence said he admitted there was such a *primâ-facie* case established as would warrant them in committing the accused for trial. He wished, however, to show why he cross-examined Mr. Glover so rigidly as he did, and to point out the weakness of the prosecution. The charge was a very serious one. The position the prosecution were placed in was this: They alleged that the stamp, which was no doubt uttered by Hanlon, was a forgery, and was known by him to be a forgery. To prove that the case rested entirely on Mr. Glover's evidence. Mr. Glover was a young man—an ordinary commercial employé of a house—and he, counsel ventured to say, rashly stated that this was a forgery. He thought he was justified in saying that the evidence was rash, and just such evidence as a young man might give, especially when he was anxious to get a conviction. But the reason why he thought he was justified in saying that the evidence was rash was that the witness was willing to swear, knowing that the possible liberty of the prisoner in this case depended on his evidence alone, that the stamp he produced was a forgery of another stamp, which he admitted he had never compared with the forged one, and which he admitted he had never had an opportunity of critically examining. His client would reserve his defence.

Accused was committed to take his trial at the criminal sitting of the Supreme Court in December. Bail was allowed —accused in 50*l*, and two sureties of 25*l*., or one surety of 50*l*.

Hanlon was then further charged with, on April 23 and on June 15, counterfeiting and uttering British revenue-stamps, and after evidence had been given he was committed to take his trial upon both charges. Bail was also allowed in these cases—accused in 50*l*., and one surety in each of 25*l*.

A Question of Patronage.

In the Chancery Division of the High Court of Justice on Thursday, December 6, Mr. Justice Kekewich had before him a motion in the action of Fish *v.* the Star Veterinary Manufacturing Company. Mr. E. S. Ford said the plaintiff (Mr. James Fish) was an ex-Mayor of Blackpool and justice of the peace for Lancashire, and on behalf of the plaintiff he moved that the defendant company be restrained from publishing or circulating any prospectus or pamphlet relating to the defendant company with the plaintiff's name inserted as a patron so as to identify him with the defendant company. In the month of February last the plaintiff received from the defendant company some boxes of medicines which he had not ordered, and at a later period he received a letter demanding payment for the medicines. Plaintiff found that in some of the papers enclosed his name appeared as one of the patrons. He wrote to the defendant company stating that he had never ordered the medicines, and demanding the removal of his name. The defendant company promised that his name should be removed, but the plaintiff's name still continuing to appear, this motion was brought.

Mr. Bramwell Davies, for the defendant company, thought that the present proceedings were oppressive, having regard to the promise his clients had made. He was prepared to give an undertaking in the terms of the notice of motion.

Mr. Justice Kekewich said there was no occasion to suggest that it was owing to anything but pure inadvertence that the plaintiff's name had continued to appear after an assurance had been given that it should be withdrawn, but it was an inadvertence that must be guarded against. Under the circumstances (the parties having agreed to treat the motion as the trial of the action), there would be a perpetual injunction, and the defendants must pay the costs up to the time when they offered to destroy the lists containing the plaintiff's name, and to give an undertaking in the terms of the notice of motion.

Order accordingly.

New Companies and Company News.

Tabard Works (Limited).—Capital 2,000*l*. in 1*l*. shares. Objects: To acquire the business of chemical cleaners and chemical merchants carried on at Old Kent Road, London, as "The Tabard Works," and to carry on the business of chemical cleaners, chemical merchants, and manufacturers of, and dealers in, disinfectants, carbolic acid, drugs, soap, sand, glauber salts, nitrate of iron, pumice-stone, oils, methylated spirits, &c. The first subscribers (who take one share each) are:—G. Grant, 97 Eleanor Road, Hackney, N.E., gentleman; G. A. Cooper, 46 Eleanor Road, Hackney, N.E., licensed victualler; E. M. Hill, 27 Chancery Lane, W.C., solicitor; H. P. Dowers, same address, clerk; G. R. Davey, 4 Fassett Road, Dalston, N.E., accountant; W. R. Reeve, Ormonde House, Trafalgar Road, S.E., merchant; A. W. Hussey, same address, engineer.

Pontypridd Drug Company (Limited).—Capital 2,000*l*., in 10*l*. shares. Objects: To carry on in all its branches the business of wholesale and retail chemists and druggists. The first subscribers (who take one share each) are:—E. J. Blackburn, Rogerstone, near Newport, Mon., schoolmaster; W. Jones, 5 Bromfield Place, Penarth, builder; J. Jones, 42 Salop Place, Penarth, builder; A. T. Jones, same address, plasterer; Mrs. J. Jones, same address; W. Thomas, 3 High Street, Pontypridd, draper; D. W. Davies, 9 High Street, Pontypridd, chemist. Registered without articles of association.

Rowland Walker & Co. (Limited).—Capital 1,000*l*., in 1*l*. shares. Objects: To acquire the secret process for the manufacture of a medicine called "Semotine," to acquire a trade-mark and the goodwill of the business of making such medicine, to make and deal in the same, and to enter into an agreement with Thomas P. Tilley, Leopold J. Greenberg, and Alfred R. Clyne. The first subscribers (who take one share each) are:—A. R. Clyne, 83 Holbein House, Sloane Square, S.W., clerk; L. J. Greenberg, Wrexham Lodge, West Hampstead, N.W., contractor; A. Greenberg, 132 Princes Road, Liverpool, accountant; F. Osbaldeston, 4 Ivy Gardens, Crouch End, N., solicitor; L. Hatzfeld, 163 Gloucester Road, N.W., music publisher; T. Ward, Berners Hotel, Berners Street, W., company director; J. A. Soper, 59 Chancery Lane, W.C., solicitor. Registered without articles of association.

Helix Automatic Delivery-box Syndicate (Limited).—Capital 6,000*l*., in 1*l*. shares. Objects: To acquire and work certain patents for automatic machines, granted to George Lawrence, and to purchase or manufacture and sell sweets, tea, coffee, chocolate, cocoa, mustard, cigars, cigarettes, tobacco, soups, pills, vaseline, &c., to be used in the Automatic Delivery Machines. The first subscribers (who take one share) are:—C. H. Wells, 10 Charlotte Street,

W.C., gentleman; E. Schuberth, 139 Cannon Street, E.C., accountant; H. Byrne, Wildfell Road, Catford, secretary; F. Wingrove, Mexfield Road, East Putney, S.W., commission agent; A. de Vismes, 38 Santos Road, East Putney, S.W., accountant; G. Lawrence, 139 Cannon Street, E.C., engineer; R. Armstrong, 155 Fenchurch Street, E.C., solicitor. Registered without articles of association.

Macdonald Manufacturing Company (Limited).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire, take over as a going concerning, and carry on the business of an artificial-teeth manufacturer carried on by John P. Macdonald (trading as the Macdonald Manufacturing Company, London), at 122 High Holborn and 17 Southampton Row, London, W.C.; 118 New Road, Chatham; 152 Milton Road, Gravesend; 36 High Street, Dartford; and 51 High Street, Guildford; and to enter into an agreement for the purpose. The subscribers (who take one share each) are:—J. Macdonald, 29 Piccadilly, Manchester, artificial-teeth manufacturer; J. P. Macdonald, 19 Bernard Street, Russell Square, W.C., artificial-teeth manufacturer; A. Macdonald, 1 White Street, Seedley, Pendleton, assistant; S. Macdonald, 190 Wellington Road, Eccles, assistant; C. Martin, 47 Park Avenue, Longsight, assistant; S. Brown, 98 Brunswick Street, Ardwick, assistant; P. Musgrove, 17 Southampton Row, W.C. The first directors (to number not fewer than three nor more than seven) are: James Macdonald (chairman), John P. Macdonald, and Alexander Macdonald. Qualification, 10*l.* Remuneration, 10*l.* 10*s.* per annum divisible.

Madsen's Patent-food Company (Limited).—Capital 100,000*l.*, in 5*l.* shares. Objects: To acquire, use, exercise, perfect, grant licences in respect of and turn to account patents, patent rights, concessions, &c., relating to improvements in the manufacture of food for cattle, horses, sheep, pigs, poultry, dogs, and other animals, and to carry on the business of manufacturers of and dealers in such patent food, bakers, corn-dealers, butchers, chemists, farmers, millers, &c. The first subscribers (who take one share each) are: W. J. Gray, 32 Old Jewry, E.C., solicitor; H. J. Lovejoy, The Lilacs, Ashford, Middlesex, gentleman; A. Hill, 25 Tremlett Grove, Upper Holloway, N., tramway manager; Hans P. Madsen, Esbjorg, Denmark, engineer; D. C. Mercer, Junior Constitutional Club, Piccadilly, W., captain; M. de Aubrey, 3 Victoria Street, Newark, gentleman; L. D. Tottenham, 32 Old Jewry, E.C., solicitor. The first directors (to number not less than three nor more than ten) are to be appointed by the subscribers. Qualification, fifty shares. Remuneration, 600*l.* per annum, and an extra 400*l.* per annum when the dividend exceeds 10 per cent., same to be divisible.

Barrett, Marshall & Co. (Limited).—Capital 2,000*l.* in 1*l.* shares. Objects: To enter into an agreement to be made with Arthur P. Barrett and Alick Marshall, to carry on the business of printing-ink, varnish and chemical manufacturers, and to buy, sell, manufacture, and deal in paints, oils, colours, lithographic stones, &c. The first subscribers (who take one share each) are:—A. P. Barratt, 2 Park Hill, Bexley, Kent, printing-ink manufacturer; A. Marshall, Auchinraith, Bexley, printing-ink manufacturer; W. Marshall, same address, gentleman; Mrs. A. P. Barrett, 2 Park Hill, Bexley; Miss L. Marshall, Auchinraith, Bexley; Mrs. W. Marshall, same address; H. E. Coles, 20 Navarino Road, Dalston, N.E., gentleman. The first directors (to number not less than two nor more than five) are Arthur P. Barrett and Alick Marshall. Qualification, 100*l.*

May's Drug-stores.—The directors of May's Drug-stores (Limited) have invited subscriptions for 200 6-per-cent. 50*l.* first mortgage debentures, part of an issue of 20,000*l.*, to be created for the purpose of providing the necessary capital for extending the business of the company, which was incorporated in 1893, with a nominal capital of 20,000*l.* 1*l.* shares. The prospectus states that the returns from the five shops opened have already been sufficiently large and remunerative to ensure a sum being obtained for goodwill alone which would equal the amount of the whole capital now invested in the event of the shops being offered for sale. The debentures will be secured by a floating charge over the whole of the leases, plant, fittings, goodwill and stock-in-trade, acquired and to be acquired, and are repayable January 1, 1915, or earlier, at the option of the company, at 105*l.* per cent., on six months' notice.

Boots (Limited).—The annual meeting of the shareholders of this company was held on November 30 at the George Hotel, Nottingham, under the presidency of Mr. Jas. Duckworth, J.P., Rochdale. The report showed that during the past year a net profit of 8,121*l.* 9*s.* 2*d.* had been made on the trading, which added to 1,113*l.* 0*s.* 10*d.*, balance brought forward from last year, made a total of 9,234*l.* 10*s.* This was after writing 2,350*l.* off the remaining half of the preliminary expenses, and the directors recommended that 1,500*l.* be carried to the reserve fund, a dividend of 6 per cent. be paid on the preference shares, and 10 per cent. on the ordinary shares, 10 per cent. on the deferred shares, management expenses 750*l.*, including managing director's remuneration and directors' fees, and that 1,240*l.* be carried forward to next year. The chairman said the past year had been a very successful one, and they had opened during the year new shops at Hanley, Nottingham, Rotterham, Peterborough, Kettering, Bedford, Wellingborough, Derby, and Burton. They had also established a mineral-water business connected with the comny, which proved to be a very valuable addition. They had a splendid plant, and it was a credit to Mr. Jesse Boot, the managing director. He thought that department would prove very remunerative and advantageous. They had opportunities for still further extension, and they were increasing their facilities for doing a much larger trade in the future than they had done in the past. He thought the company was still in its infancy. The directors were sending out a new issue of shares, and no doubt they would gain considerably by this increase of capital, as it would enable them to have the solid reserve of 8,500*l.* The directors were so thoroughly convinced that this new issue was an advantage to the company, that they had taken up 500 ordinary shares at the full price of 28*s.* per share. The report and accounts were unanimously adopted, and a vote of thanks to Mr. Boot and to Mr. Milne, the secretary, was also carried.

Trust, Agency and Guarantee Company of England (Limited).—Registered November 17, 1894. Capital 10,000*l.*, in 10*l.* shares. Objects: To carry on the business of acquiring, holding and dealing in stocks and shares, company promoting, financing, banking, underwriting, and all kinds of guarantee and agency business; to undertake the office of trustee, receiver and liquidator, official or otherwise, executor, administrator, guardian, committee, manager, factor, agent, &c. The first subscribers (who take one share each) are:—Arthur M. Young, Rose Street, Long Acre, merchant and manufacturer; Francis Fowler, A.R.I.B.A., 9 Serjeants' Inn, Temple; J. W. Douglas, A.P.S., 52 Ivanhoe Road, Denmark Park, S.E., chemist; B. M. Knight, Eaton, 56 Great Russell Street, W.C., merchant; John B. Little, 77½ Bishopsgate Street, Without, E.C., printer; G. de G. Griffith, 34 St. George's Square, S.W., physician; J. W. Douglas, 34 Old Broad Street, E.C., secretary to a public company. The first directors are to be appointed by the subscribers. Number and qualification not stated. Remuneration, a sum equal to 250*l.* each per annum divisible. Registered office, 34 Old Broad Street, E.C. No agreements.

[This company is advertising its desire to purchase "reliable chemists' businesses yielding adequate returns and profits in London and leading provincial centres." Representatives of the company inform us that they have already acquired a number of good businesses, and that in January next they will launch a Chemists' Co-operative Society (Limited) with 150,000*l.* capital, which will run from 80 to 100 sound chemists' businesses all over the country. Our informants are confident that the proposed capital will be subscribed several times over, so assured are they of the profitable character of the enterprise. They intend that their businesses shall be of the highest character of pharmacy only.]

Theft from a Drug-shop.—George Docherty, a Strichen labourer, has been sentenced at Aberdeen to fourteen days' imprisonment for stealing six sets of sleeve-links and a pack of playing-cards from the shop of Mr. Alexander Lee, druggist, Strichen.

Bankruptcies and Failures.

Re L. A. FRESSON, formerly of Hope Street, Hanley, Chemist.

AT the Hanley Bankruptcy Court, on Thursday last week, this debtor came up for his public examination. In cross-examination bankrupt stated that his gross liabilities amounted to 780*l.* 6*s.* 7*d.*, of which 775*l.* 8*s* 5*d* was expected to rank, and there was a deficiency of 754*l* 0*s.* 7*d.* He mentioned the particulars of his business career as reported in this journal, November 24, page 753, and said that in December last his wife was given 30*l.* or 35*l.* by her mother, with which she purchased a business in Rose Street, Northwood, which was taken in his wife's name. No goods sent to the Hope Street shop had been forwarded to the Northwood shop without having first been opened, neither had he ordered goods for the Northwood shop. He sold the furniture to his wife for 26*l.* in December, but she did not pay him for it until June. His wife paid him 30*l*, which he paid over to his brother for advertising. It was an old debt, and he would have paid it to any of his creditors who asked him first. He denied that the money paid to his wife was given to him with the intention of defrauding his creditors. Further examined, the bankrupt said that the statement he made that he owed his father 43*l.* was untrue; he only owed him 20*l* Mr. Figgins then applied for an adjournment and an order for an amended statement of affairs, which was granted. The examination was adjourned until December 20.

Re JOHN ROBERT MURRAY, late of Monument Road, Edgbaston, Birmingham, Chemist's Manager.

THIS debtor, who failed recently, with total debts 723*l.* and a deficiency of only 21*l.* 18*s.* 7*d*, attended at the London Bankruptcy Court, before Mr. Registrar Brougham, for public examination. In the course of his evidence, the debtor stated that in 1892 he accepted the post of manager to a homœopathic chemist carrying on business at Walsall and Birmingham. He had no previous knowledge of the business, but, having received some tuition at Birmingham, was entrusted with the management of the Walsall branch. Under the agreement with Mr Williams (his employer) he deposited 250*l.* as security for the proper performance of his duties, the money being raised on the mortgage of a house left to him by a relative in 1891. Witness acted as manager of the Walsall branch until last February, when Mr. Williams absconded, and since then he had not heard anything of that gentleman, nor had he any occupation. In addition to the loss of his 250*l.* deposit, witness incurred a liability on behalf of Mr. Williams upon a promissory note of 260*l.* When his employer absconded he (the debtor) was called upon to meet the promissory note, and as security he gave the holder certain gas-shares that had also been left him by a relative, and a second charge on the dwelling-house abovementioned.

In reply to Mr. Poole, who appeared on his behalf, the witness said that Mr. Williams represented himself to be a homœopathic specialist doing a very profitable business. He further understood that he (Williams) was a physician, and he handed over the 250*l* deposit upon those representations, with a view to earning for himself a salary and bonus on the profits. At the time of depositing the money he believed it would be perfectly safe in Mr. Williams's hands, but he found eventually that it was simply the "confidence trick." Although induced by his employer to endorse the promissory note for 260*l.*, he received no portion whatever of the proceeds. He gave the security to the holder because he was threatened with legal proceedings for the recovery of the amount after Mr. Williams had absconded.

The examination was ordered to be concluded.

Re FREDERICK GEORGE MACK, 5 Hilderthorp Road, Bridlington Quay, Chemist and Druggist.

THIS debtor appeared for his public examination at Scarborough Bankruptcy Court last week. His deficiency amounted to 313*l.* 17*s.* 1*d*, and his public examination was closed.

Gazette

PARTNERSHIPS DISSOLVED.

Byass, W. C., and Freeborn, H. S. R., surgeons and general medical practitioners, Dorchester and Clifton Hampden, Oxfordshire.

Lowe, G. M., and Lambert, F. S., medical practitioners, Lincoln, under the style of Lowe & Lambert.

McMaster, A., Crossley, G. W., and Morgan, T., drysalters, Liverpool, under the style of Warren & Co.

Poyser, G, and Duckworth, T. H. L., veterinary surgeons, Ashborne Derbyshire, under the style of Poyser & Duckworth.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Mulliner, Francis Edwin, Liverpool, physician and surgeon.

ADJUDICATION.

Aslin, John (trading as John Aslin & Co.), Slaggyford, Northumberland, and Sunderland, chemist and druggist.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Westmoreland, William Henry, St. Helier's Terrace, North Kensington, W., chemist—discharge suspended for two years, ending November 6, 1896.

Deed of Arrangement.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Roe, Henry, 51 and 52 Park Terrace, East Horsham, mineral-water manufacturer. Trustees, James Harrington, 11 Albion Terrace, Horsham, and another. Dated November 26; filed December 1. Liabilities unsecured, 2,184*l.* 19*s.* 11*d.* Estimated net assets, 200*l.* 15*s.* 9*d.* The following are scheduled as creditors:—

	£	s.	d.
Binns, J. E., Huddersfield	200	0	0
Binns, Rev. J. (executors of), Huddersfield	351	0	0
Cramp, J., Horsham	54	0	0
Law, J., Huddersfield	540	0	0
Roe, Mary Ann, Shrewsbury	530	0	0
Roe, T. E., Exeter	55	0	0
Rylands, Dan (Limited), Barnsley	46	0	0
Scrase, A. P., Burgess Hill	116	0	0

Trade Notes.

BYROLIN is the correct name of Dr. Graf's ointment referred to in our last issue as "Brynolin."

THIS week Messrs. Armbrecht, Nelson & Co. fulfil their promise made on page 295 of the 1895 DIARY, and a curious page it is that they insert as an advertisement in this issue.

MESSRS POTTER & CLARKE'S "Herbal Annual and Family Medical Guide" for 1895 is now ready. It is a useful little book, especially for the encouragement of non-proprietary herb trade, and sells at a penny.

MESSRS. ELLIMAN, SONS & CO., of Slough, have slightly modified their terms for the direct supply of their Royal and Universal embrocations. They will now supply at utmost discount assorted orders which amount to the value of one gross of 1*s.* size, instead of requiring the order to be twelve dozens in number. Their agreement respecting retail prices remains in force.

NOTICE, re Closing at XMAS.

THE TRADE are requested to take NOTICE that our Works and Offices will be Closed from the evening of Saturday, December 22nd, until the following Thursday morning.

For The SANITAS CO., LD.

C. T. KINGZETT, Managing Director,

Bethnal Green, LONDON, E.

ELLIS'S TABLE WATERS

"The water is of first-class organic purity, and the quality of the gas is excellent."—J. ALFRED WANKLYN, M.R.C.S., Prof. of Chem.

Absolutely Pure."—A. URE, M.D., F.R.S., L. THOMPSON, M.R.S., Analytical Chemists.

SOLE ADDRESS— [2]

R. ELLIS & SON, RUTHIN, NORTH WALES.

London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square

PUREST IN ENGLAND.

BOURNE TABLE WATERS

SODA, SELTZER, LITHIA, POTASH, LEMONADE, GINGER ALE, &c.

Supplied in Six Dozen Cases, Carriage Paid, by

Analysis, &c., on Application.

R. M. MILLS & CO., BOURNE, LINCOLNSHIRE.

West End Agent. D. WHEATLEY, 16A North Audley Street, W. City Agents, RAE & CO., 23 Fenchurch Street, E.C. And of all Chemists, Wine Merchants, Hotels, &c.

LOFODEN COD LIVER OIL COMPANY.

DEPÔTS: SNAD THAMES, LONDON, and at HULL.

OFFICES: 138, MINORIES, LONDON, E.C.

MUMFORD'S

FARRINGDON ROAD, LONDON, E.C.

THE BEST THAT CAN BE PRODUCED.

PURE CRUSHED LINSEED	18/	1 cwt. carriage paid; or 7, 14, ✠ 28, & 56 lbs. free on rail Lond.
BEST CLEANED LINSEED (For Tea)	17/	1 cwt. carriage paid; or 7, 14, ✠ 28, & 56 lbs. free on rail Lond.
PURE STARCH POWDER	23/	1 cwt. carriage paid; or 7, 14, ✠ 28, & 56 lbs. free on rail Lond.
PURE FULLER'S EARTH (Light Colour)	16/	1 cwt. carriage paid; or 7, 14, ✠ 28, & 56 lbs. free on rail Lond.
PURE FULLER'S EARTH (Fine)	14/	1 cwt. carriage paid; or 7, 14, ✠ 28, & 56 lbs. free on rail Lond.

✠ CARRIAGE PAID to Railway Stations within 200 miles of London (or allowance made for distances beyond) on a total weight of 112 lbs. and upwards of above articles

A FOOD, an Embrocation, an Antiseptic.

R. & N. POTT PURE-BREWED VINEGAR.

Southwark, LONDON, S.E.

Estd. over 250 years.

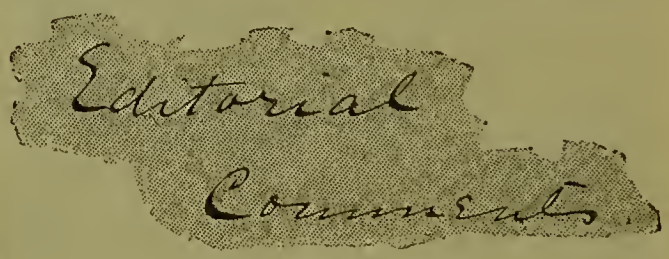
Guarantee as to Purity attached to All Casks, Bottles, and Invoices.

FLETCHERS' CONCENTRATED LIQUORS AND FLETCHERS' HYDROBROMATES.

Sole Manufacturers—

Fletcher, Fletcher & Co., HOLLOWAY, LONDON, N.

N.B.—Telegraphic Address—"HYDROBROMIC LONDON."



THE WIDOWS' CLAUSE.

IN his Glasgow address, last week, Mr. Carteighe once again attacked a favourite old foe of his—the concession in the 16th section of the Pharmacy Act to executors to continue the businesses of deceased chemists and druggists with the aid of a qualified manager. Mr. Carteighe claims that he opposed this exemption when the Act was being formed, but, astonishing as it may seem, his youthful arguments in favour of a cast-iron Act were disregarded, and enough elasticity was imported into the legislation to make it fit to stand the strain of actual service. But the President of the Pharmaceutical Society now declares that, until the trade is willing to surrender their rights in this respect, neither he nor his colleagues on the Council can think of advocating legislation to check the progress of the usurpation of pharmacy by unqualified persons, which is becoming rampant.

We are sorry to have to believe that in this respect Mr Carteighe correctly represents the views of the Council generally. Quite recently Mr. Rymer Young, in his address to the Pharmaceutical Association of Manchester, spoke strongly in the same sense, and we have a recollection that other members of the Council have endorsed these views. So far as we can remember, no one of them has ever repudiated them.

Can it be that these gentlemen have ever fully realised the effect of an abandonment of what is called "the widows' clause"? We have not the least hesitation in saying that without it the Pharmacy Act would be simply unworkable. Under the present conditions a hardworking chemist and druggist builds up, often aided in no small degree by his wife, a comfortable little business. It yields a profit of, say, 250*l.* to 300*l.* per annum. Death steps into the household, and removes its head. There is nothing to speak of left for the support of the widow and children but the business. Perhaps there is a son preparing to take his father's place, but not old enough yet to qualify. If the business had been any other than that of pharmacy, the widow could have carried it on without any legal hindrance. In this case, however, the law insists that she shall engage a qualified manager if she elect to continue it. This, of itself, is a serious tax, and it probably reduces her income to half what it was. But what if Mr. Carteighe had his way? She must immediately dispose of her means of livelihood for the best offer available. It might be that the law would graciously grant her six or twelve months to find a customer, though we do not see how that concession could be logically adopted. In any case, the sale would be a forced one, and the widow's income would be promptly reduced from a possible 200*l.* to some 20*l.* or 30*l*, if the proceeds of the sale of the business were invested with due care.

This is no fancy picture. It is what would have occurred thousands of times since 1868 if it had not been for the foresight of the framers of the Pharmacy Act in introducing this widows' clause and ignoring Mr. Carteighe's protests.

It is superfluous to tell us that the provision interferes with the symmetry of the legislation. Of course it does. So does every exemption in every statute. Will these Pharmaceutical Councillors point us to any law which is perfectly symmetrical? The complexity of interests involved does not admit of such a condition. The law is that murder shall be punished by death; but extenuating circumstances are recognised in regard to this crime. We have laws directed against betting, against drunkenness, against nuisances of all kinds. Does anyone argue that, because these cannot be enforced with absolute perfection against every offender, the protection afforded, such as it is, should be abandoned altogether? The rule of the road is that the traffic shall be kept moving, but if a horse falls in the street the rule of the road has to be suspended for the time. So it is in pharmacy. The principle of the law concerning it is that only qualified persons shall be entrusted with it, but there must be a recognition of the disarray in the affairs of individual pharmacists occasioned by death, or, as we have said, the enforcement of the law would not be practicable.

Mr. Carteighe is reported to have said that the decision of the House of Lords in reference to limited companies was based upon the widows' clause. If he said anything like that he was presuming on the ignorance or forgetfulness of his hearers. The decision of the law lords in the case alluded to would have been exactly what it was if there had been no widows' clause. The cases are only parallel to a very limited extent. The question whether unqualified persons or companies may call themselves chemists and druggists and keep open shop for selling poisons is a long way removed from that which asks whether the estate of a deceased chemist and druggist shall be ruthlessly sacrificed to a fantastic idea of symmetry worthy of the philosophers of Laputa. If this is the boon we are to get when the whole trade is united under the banner of the Pharmaceutical Society, the longer that consummation is postponed the better.

OUR 1895 DIARY.

Consistent with our custom, we have this week despatched The Chemists' and Druggists' Diary for 1895 to all home subscribers, and by the time these lines are read by subscribers in the colonies and foreign countries the Diary should be in their hands also.

In our last Winter Issue we described the production o the Diary. Without re-telling that history, we now desire to call the attention of subscribers to the purpose of this annual volume and its use as a diary and business-manual. Perhaps the thing which will strike everyone most about the volume is that the 486 pages (in which we do not include 110 pages of writing and blotting paper) comprise 406 pages of advertisements and 80 pages of literary references. Some people (fortunately they are few) have a sublime contempt for anything in the nature of an advertisement. It is an old-fashioned prejudice; indeed, it existed before publishing was a known art in the streets of Askelon, and it will doubtless remain until the verge of time. We respect it as we respect all antiquities, but we cannot look at these 406 pages of advertisements and regard them in any other light than as a boon to the drug-trade. If subscribers will turn to "The Buyers' Guide" on page 145 of the Diary, and glance through the forty columns of entries therein, they will find nearly 7,000 references assisting them in finding good markets for nearly as many articles. There are few things so important to all branches of the drug-trade as quick references to the makers of or agents for any article needed, whether the most ordinary or the least often called for. We can imagine one thing only which would be superior to "The Buyers' Guide" in this respect—viz., a complete collection of price-lists and catalogues, with a full index of the same. No such thing exists, nor would any firm be likely to produce it. Our Diary "Guide" is the nearest approach to it, for it contains references to the business, brands, products, and specialities of 526 firms who have business with the United Kingdom and her foreign and colonial customers. Surely such a compilation is of incalculable advantage to the trade, and we do not belittle the importance of other reference-matter in the Diary when we say that these business references are perhaps its most valuable feature. We have not fixed the limit of its usefulness: doubtless there are many things not in it, and although we do not fully agree with the man who said that "a thing that is not worth advertising is not worth buying," we hope the time may not be far distant when all branches of the trade will see the advantages of our Diary as a universal buyers' guide. This is not a vain hope, for we notice that during the past decade the Diary has doubled in size, while the reports that we receive from the firms who use it for their announcements clearly indicate that the Diary fulfils a function that cannot be met by week-to-week advertisements.

Turning now to the literary pages, we would point out to subscribers the nature of the information which they may find therein. Experience in our correspondence department shows that a large proportion of enquiries addressed to us are on what we may call stock subjects. We refer particularly to legal and official matters connected with pharmacy rather then to those technical difficulties which can only be dealt with as they arise. These stock subjects are crisply treated in the Diary. For example, all that the chemist wants to know about the registration of trade-marks and the patenting of inventions is told on pages 157–159. We frequently have questions about trade-marks, but few of them are not covered by the information given in the Diary. All the laws which directly or indirectly affect

pharmacy are adequately epitomised. The Acts relating to the sale of poisons are dealt with on page 201, wherein the schedules now in force in Great Britain and Ireland are given, together with the special regulations as to dispensing, the sale of arsenic, wholesale dealing, and the sale of poisonous proprietary articles. It would be an advantage to all in the trade, apprentices and assistants as well as masters, to refresh their memories by reading these pages, particularly noting the incidence of the Acts which apply to the poisoning of animals. Following the article on poisons, we this year give a concise statement regarding poison-antidotes, which is intended to show what the chemist can do until the doctor arrives. The law concerning spirits, so far as it affects chemists, is dealt with on pages 212–216, and more fully than in previous volumes. There is much misunderstanding in the trade as to what can be done with methylated spirit, and we have made a special point of bringing out clearly the necessity for retailers of methylated spirit obtaining authorisation from the Board of Inland Revenue for the use of the spirit in any direction not permitted by general order. We also show, by examples, purposes for which it may or may not be used. The sale of medicated wines is becoming an important part of pharmacy, and the law on the subject is dealt with. The law relating to the sale of stamped medicines is somewhat intricate, but we have endeavoured to make it as clear as it can be made in a single page, and reference to the paragraphs may save correspondence in the course of the year. The other sections of the legal matter have been revised, but the only new Act affecting chemists is the one dealing with the sale of fertilisers and feeding-stuffs, and this is of direct interest to country chemists. Those amongst them who do business in these goods should carefully note the provisions of the Act, as the penalties for contravention are heavy, and the regulations under the Act more stringent than is generally supposed. Amongst other sections in the first part of the Diary are the postal information, which is a careful condensation of the official regulations, and the sections next following it—viz., Stamp and Death duties, and Excise licences and duties. This information looks very dry, but it will often be found of great value, and it is given in this Diary more perfectly, we believe, than in any other single work known to us. As it is compiled expressly for us by one of the chief legal authorities at Somerset House, its accuracy may be relied upon.

Turning now to the relations of chemists with their customers, it will be observed that the list of medical and surgical specialists given on pages 205–211 has been much revised. We believe that the only rational way of arriving at a true indication of what the leading medical men of London are specialists in is to show what hospitals they are attached to. This is the least invidious arrangement, and one which does not displease practitioners. It should not be overlooked that leading consultants are not specialists in the strict sense of the word: their knowledge is special, but they may not profess to treat one special organ or disease only. It is when we come to the eye, ear, throat, bladder, and the like that we find a race of doctors who devote themselves to these exclusively, and it is here that chemists will find the Diary of great advantage in advising their customers. The article on water-analysis, which follows the list of doctors, is an attempt to show druggists, who do not pretend to be expert chemists, how they may advise customers in regard to the quality of water. We expect that the feature of the Diary which will be found most generally useful is the "Dictionary of New Remedies," which occupies the latter portion from page 408. Up to the date of writing this dictionary contained all the bodies, other than alkaloids and the like, introduced into medicine within the present generation, and the arrangement is such that as the year goes on subscribers can add brief notes upon any that are now introduced. The treatise on "Perfumes" is one of those popular features which we find to be necessary for the Diary, and we trust it will save repetition of formulæ. We may call attention, finally, to the coupons sent with all the Diaries, the answering of which forms our competition for December. This is, perhaps, the pleasantest feature to many, as it adds interest to the examination of the pages, with a possibility of immediate profit, and we trust that a good proportion of the coupons will find their way back to Cannon Street.

COMPANY PHARMACY.

The public are getting abundant opportunities of sharing in the traditionally fabulous profits of pharmacy. The generally trustful investor did not rise very eagerly to the temptations offered by Parke's Drug-stores. The omnivorous Boots (Limited), as will be seen from our report, are able to record a successful year and to pay a 10-per-cent. dividend to their ordinary shareholders. Naturally, they have some more shares to offer. May's Drug-stores have this week invited a subscription of 10,000*l.* for 6-per-cent. debentures to enable them to open fresh shops in addition to the five they are already the possessors of. The security offered is the leases, plant, fittings, goodwill, and stock-in-trade of the company, acquired and to be acquired, and the 10,000*l.* may be increased to 20,000*l.* The company was incorporated in December, 1893, and the directors assure the public that the returns have been sufficiently large and remunerative to ensure a sum being obtained for goodwill alone which would equal the amount of the whole capital now invested in the company in the event of the shops being offered for sale! No particulars of these wonderful returns are vouchsafed. The *Pall Mall Gazette* makes the following shrewd observation about this prospectus:—

There are better debentures about than those offered by May's Drug-stores. The prospectus, as advertised, has a good deal to say about Dr. Moon's food for infants, Jamaica jelly, bloomidia, petal soap, and the like, but nothing about the profits or the value of the property of the company, which, after a year's existence, has to issue debentures. The company, the prospectus states, was incorporated by a few gentlemen seeking a non-speculative and remunerative home investment. We suggest that they should take the debentures themselves, although, as these bear 6 per cent. interest, perhaps the few gentlemen do not regard them as non-speculative.

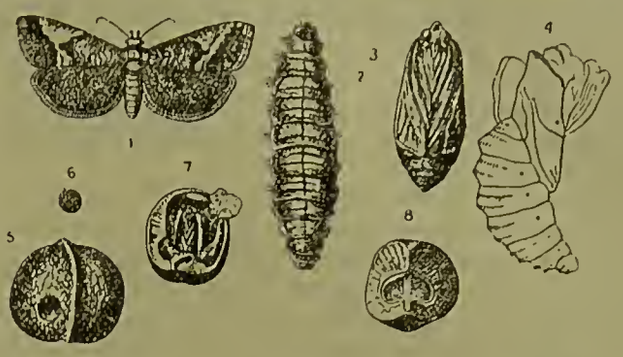
But these are only the first drops of the shower to come. We hear of a syndicate being formed by the proprietors of about a dozen of the most "modern" pharmacies in the west of London, with a view of offering these brilliant enterprises to the public. The proprietors, it appears, are getting tired of the monotony of raking in their profits, and want outsiders to come in and help them. Last comes the Chemists' Co-operative Society, which is to be launched in January next with a capital of 150,000*l.* by the Trust Agency and Guarantee Company of England (Limited). This is to start modestly with 80 to 100 shops, with the idea of extending its operations later. We give some further particulars of this magnificent scheme under "New Companies." They were furnished to us by a very courteous and very confident director of the Trust Company, who talked of buying a hundred chemists' businesses with no more excitement than characterises the ordinary citizen when he purchases a dozen

oranges. In our simplicity we ventured to ask what would become of these businesses if the public should perversely refuse to provide the 150,000*l.*, for the Trust Company has only a nominal 10,000*l.* to play with. We were urged to set our minds at rest in that respect. The Trust Company, we were assured, had plenty of resources at its back, and the investment in the Chemists' Society would be such an attractive one that there was not the least doubt it would be subscribed for several times over.

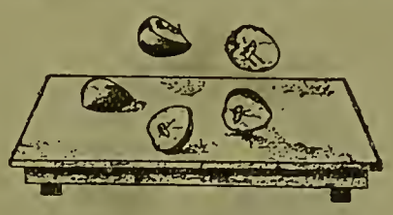
JUMPING BEANS.

THERE is nothing new under the sun; even the "jumping bean," which the Royal Botanic Society has brought to our notice as a novelty, turns out to be a very old friend indeed. As far back as 1858, Westwood, the entomologist, described the "bean" and its little denizen (to which he gave the name of *Carpocapsa saltitans*) in the *Transactions* of the London Entomological Society, and from that time forward the fruit and its parent plant have been more than once described and exhibited. Mr. Carus Sterne, in an interesting article on the "bean" which appears in the German scientific journal *Prometheus*, recalls that in 1856 a Mr. Lettsom, connected with the British Legation in Mexico, forwarded specimens of the "jumping-bean" plants to London, where they were found to belong to the N.O *Euphorbiaceæ*. Afterwards, Müller ascertained the "beans" to be the product of various *Sebastianiæ*, notably *S. Pavoniana*, *S. Palmeri*, *S. Pringlei*, and, possibly, *S. bilocularis*. All these shrubs have their habitat in the Mexican State of Sonora, and are distinguished by the highly toxic properties of their sap, which, in former times, was a favourite arrow-poison. The "jumping beans" are mostly collected near the town of Alamos; their Spanish name is "Brincadores." At the time when the fruit begins to form, a moth the *Carpocapsa saltitans*, Westw., referred to above, deposits its eggs on the immature whorl. The caterpillar, which causes the movements of the fruit, is a bright-yellow creature with reddish head, from 8 to 11 mm. long and provided with eight pairs of legs. The "bean" itself forms the third part of the entire fruit, which, as in most *Euphorbiaceæ*, consists of three capsules placed round a central column. The usual movements of the larva are limited to the reversal of his dwelling from one to the other of its flat sides, but with a somewhat increased temperature the fruit is frequently thrown on its convex side and occasionally describes a series of more or less elliptic movements, generally measuring about 5 millimetres in length. The brincadores larva is closely allied to the apple-grub of our orchards (*Carpocapsa pomonella*). Similar dancing-grubs have been found in the *Colluyvaya brasiliensis*, which was originally believed to be the mother-plant of the "jumping bean"; in the fruit of the tamarisk, which has been found to harbour the larva of a small beetle (*Nanodes tamaricis*), of which the saltatory movements were described in Mathias de Lobel's "Herbal" of 1576; and in certain varieties of oak-galls, notably those of *Quercus macrocarpa* and *Quercus alba*.

The following group of engravings shows the development of *Carpocapsa saltitans*: Fig. 1, butterfly (2/1); fig. 2, caterpillar (3/1); fig. 3, chrysalis (5/2); fig. 4, the same, magnified; figs. 5, 7, and 8, the capsule slightly magnified in various positions; fig. 6, the cover of the entrance-hole visible in figs. 5 and 7. The second illustration is intended to show the bean on the jump, and this takes us to the commercial aspect of the matter. The jumping bean has been re-discovered by an enterprising American firm of advertising experts, who have helped to create quite a bean boom during the past two months; and druggists have been sharing in it. For instance, Evans, of Philadelphia, who is reported to have about the smartest drug-store windows in the United States, is one of those who exhibited the beans in his window. And



they drew a crowd. It is curious to watch the beans. One is startled when the apparently inanimate thing suddenly begins to move. Next one wonders when it will stop. This suggested to a bright Yankee a new game. He divided a



circle into segments, numbered the latter, then placing a bean on the circle the game commenced—and the betting. It can only be a winter game, for the beans begin to jump in September and stop in May. They prefer a warm room for their skipping.

CAYENNE PEPPER FOR AN EYE-LOTION.

A patent has recently been granted to Mr. E. Jeffrey, 1 Castleside, near Blackhill, for an eye-lotion composed of extract of celandine, extract of eyebright, and extract of cayenne pepper. It is hardly likely that the inventor will have the validity of his patent challenged on the ground of want of novelty.

COTTON-SEED OIL LITIGATION IN TEXAS.

The State of Texas has an anti-trust law which forbids, under very stringent penalties, the formation of combinations to depress or advance the natural price of commodities, whatever that may mean. The American Cotton-oil Trust are just about to experience the rigours of this enactment. According to their wont, the Trust people (who, as a Monopolist organ indignantly remarks, are among the most substantial, progressive, law-abiding and highly esteemed citizens of their State) have been trying to squeeze the cotton-farmers by agreeing among themselves not to pay more than a certain figure for seed for crushing purposes. The farmers, however, have turned the tables by carefully accumulating evidence of the conspiracy and setting the law in motion against the substantial, progressive, and highly-esteemed ones. Singularly enough it appears that, in framing the law, the farming interest had a proviso inserted expressly exempting from its operation "agricultural products and live-stock while in the hands of the producer or raiser." In other words, the farmers may combine to raise the price of cotton-seed, but the crushers must not conspire to depress it. It is expected that this clause will be a farmer's Nessus shirt in the present case, as jurists hold class legislation of this kind to be unconstitutional.

TOM MARTIN.

NO one is better known in the London drug-trade than Mr. T. C. W. Martin, Maw's town traveller—Tom Martin, as he is always called. He is known not only to London chemists, but also to a large number in the country and abroad who were once assistants in London. All of these will recognise the familiar Napoleonic features in the portrait we publish on this page.

Mr. Martin has lately completed his fiftieth year of association with the house which he represents. His fellow-workers in the firm have already signalised this event by a supper, at which a very handsome tea-and coffee service with tea-tray and salver were presented to him, together with an elegant épergne for Mrs. Martin. A number of the friends he has made among his customers have also desired to commemorate the jubilee, and this desire was gratified by the assembly and presentation on Wednesday last in the Pharmaceutical Society's Hall, which we report below. We asked Mr. Martin the other day to give us a few details of his career, and this is what he wrote out for us:—

"My impression is that I was brought up amongst pestles and mortars. As a town-bred child, I have a distinct impression of seeing a portion of the old sign of the 'Harrow,' which, I believe, used to be, or was originally, in Whitecross Street, and is still perpetuated on Sandwell's issue plasters. I have a vivid recollection of old Christmas days when the entire staff of Maw's dined at 11 Aldersgate Street—I am now speaking of over sixty years ago. I clearly remember waiting for my father on the night the Royal Exchange was burned down, in 1844, and, as this was the first big fire I had witnessed, it made a lasting impression. My delight was to get my father to take me up to the Post Office to see the Royal Mails start.

"I was apprenticed in 1844 to the manufactory, under my father, who was then the sole manager of that branch, to the late Mr. Solomon Maw. Here let me place on record that Mr. Solomon Maw was not a Jew, although his name may have given that impression to a great many. He was one of the finest specimens of a grand old English gentleman—kind-hearted, generous, and ever wishing for the welfare of his employés. Two years of factory-life broke down my health—at that time apprentices worked from 8 A.M. until 8 at night (no Saturday half-holidays)—and I was ordered away from London by the celebrated Dr. Startin, for whom at that time my father was working out the doctor's ideas of anæsthetic inhalers. After some months' sojourn at Hastings I returned, and was drafted into the warehouse. One of the celebrities of the age at that time was representing us in the country—the well-known character, Mr. Pegg, better known as 'Walking Pegg.' He always seemed to like me, although he condemned my boots, because he happened to see me in a pair of patents.

"From the warehouse I graduated into the counting-house. In December 1856 occurred the tremendous fire which burned the entire establishment out. Mr. Charles Maw, son of Mr. Solomon Maw, was sleeping on the establishment at the time, and his life was providentially saved.

"The firm engaged the premises of the horse repository in Little Britain during the rebuilding. Up to this time we had not done any town trade of importance, and it had been a constant thought in my mind, 'Why not?' The trade in town used to be done by small men, who bought wholesale at our warehouse and sold retail. I saw the opportunity, and after consulting with and giving Mr. Solomon Maw my views of the subject, he after due consideration allowed me to work out my plans. I started on foot and after twelve months had increased my clientèle so largely that I persuaded him to allow me to have a pony and trap. At that time I used to cover the whole of London, making a circuit, including Woolwich, Greenwich, Anerley and surroundings to Surbiton, Kingston, Richmond, Putney, Wandsworth, Hammersmith, Harrow Road, Hampstead, Highgate, Holloway, Edmonton, Tottenham, Clapton, Hackney, Whitechapel. As the trade extended I had to have an assistant, and at the present time the firm are represented by four town travellers. I attained my jubilee this year, being the fourth in the employ to arrive at such distinction, the first of whom was my father. You will see, therefore, I am now serving the third generation (Mr. Charles Trentham Maw), who came of age in 1885."

Mr. Martin has many reminiscences of well-known London pharmacists, but we have no space for these now. His pony-trap soon developed into a dogcart, and this into a phaeton. Some years ago an accident damaged a foot permanently, and since then Tom Martin has enjoyed the *otium cum dignitate* of a brougham in his journeys round the metropolis. His lame foot spoils his dancing powers, but has not interfered with the efficiency with which at the Chemists' Ball and similar functions he performs the duties of M.C., and will continue to perform them, we hope, for very many years to come.

Presentation to Mr. T. C. W. Martin.

On Wednesday evening, at 6 o'clock, some fifty friends of Mr. T. C. W. Martin (London representative of Messrs. S. Maw, Son & Thompson) assembled in the Examination Hall of the Pharmaceutical Society, Bloomsbury Square, W.C., to present him with an illuminated address and purse of money as a token of their respect, and in commemoration of his completion of fifty years' service with the above-named firm. Mr. Martin is extremely popular both in business and social circles of Metropolitan pharmaceutical life, and the proceedings during the presentation were of a warm and cordial, and, so far as the recipient himself was concerned, of a somewhat affecting nature. Among those present were Mr. Michael Carteighe and Mrs. Carteighe, Mr. Martindale and Mrs. Martindale, Mrs. Martin, and Messrs. Charles Umney, R. Bremridge, Fred Banks, A. Bottle, R. A. Robinson, J. W. Bowen, W. W. Urwick, and H. A. Thomas.

Mr. E. N. Butt, in presenting the address and purse, referred to the length of service which Mr. Martin had rendered his firm, with whom he commenced his business life some fifty years ago, at the age of 14. During the past thirty years, or thereabouts, members of the craft in London had been called upon regularly by Mr. Martin, in pursuit of his business. He came to them year after year like the swallow—in fact, Mr. Martin might well take for his motto the words *Je reviens*, with a sand-martin for his crest, as a represen-

tation of the continuity and regularity of his visits to them. During all those years their visitor had won the sincere respect of all with whom he came in contact—and deservedly so, as no one was more ready to do a good turn for another, even at great personal inconvenience, than Tom Martin. After referring to the interest Mr. Martin had always evinced in chemists' social gatherings, the Chairman paid him a tribute of thanks for the manner in which he had worked for the good of the Benevolent Fund of the Pharmaceutical Society, and finally handed him a purse containing a cheque for 175 guineas, together with a richly illuminated address which ran as follows:—"Presented, with a purse of 175 guineas, to Mr. T. C. W. Martin by the friends whose names are appended, as a souvenir of their esteem and regard, December 5, 1894." Then followed the names of the committee and subscribers to the testimonial.

Mr. Carteighe followed. It had often been asserted, he said, that the Pharmaceutical Society cared nothing for trade. As treasurer of the presentation fund nothing had given him greater satisfaction than to notice that amongst the intimate friends of Mr. Martin who were subscribers to the testimonial 90 per cent. were connected with the Society. If Mr. Martin represented the trade, then he though the Pharmaceutical Society might also be looked at in the same aspect. During the thirty years of a not very inactive business-life there was no one who had maintained a greater respect as a fine specimen of humanity than the gentleman who was to receive the presentation that evening. (Applause.)

Mr. Robinson rose after Mr. Carteighe and spoke in the same vein, particularising the intimate acquaintance which Mr. Martin possessed even of the details of the great business house which he represented.

Mr. Phillips in a few words referred to the good friendship which Mr. Martin had borne many men in the course of his long business-life.

Mr. Martin, who was visibly affected, and broke down in the early sentences of his remarks, said his heart was too full to say as much as he intended. After all, he was only a rude ambassador of commerce, and when he looked round and saw such a goodly array of kindly faces he found he could not express his feelings adequately. He had been calling upon the trade for the last forty years, or nearly so. He had represented three generations of his firm, and was calling upon the third generation of many of his customers. As far as his career was concerned it had chiefly been a pleasurable one. All his interest had been to stand between any friction, and he had always endeavoured to advance the social side of the craft. It was very kind of Mr. Butt to speak of his efforts on behalf of the Benevolent Fund. He had seen the value of that fund, and he could not help thinking that every man in the shape of a chemist ought to be able to contribute to it. He thanked them again for himself, his wife and child. (Loud applause.)

Mr. Bottle, on behalf of the subscribers, proposed a vote of thanks to the Chairman. Mr. Urwick seconded the proposition, which was carried.

Mr. Butt, in thanking them, referred to the exertions of the Secretary, Mr. Fred Banks, and intimated that the illuminated address which had been presented that evening was his unaided work.

Mr. Banks then spoke a few words as to the pleasure he derived in carrying out the work in connection with the presentation, and the proceedings terminated.

The Calcutta correspondent of the Dundee *People's Journal* mentions that Mr. William Mair (a Dundonian) is doing good work in Calcutta, apart from what he does as one of Smith, Stanistreet & Co.'s staff. "But," says the correspondent, "the great work of his leisure is the re-writing of the Indian Pharmacopœia, and, if he does not kill himself with overwork, I venture to say that when his book appears it will be found to be a mine of accurate information up to date, and be the standard work on the subject." We suspect that the Calcutta man has got hold of the wrong stick. Mr. Mair is associated with a distinguished pharmacognosist in a work on Indian materia medica, but that does not include the "Pharmacopœia of India," an official publication (written by Dr. Waring) which a civilian is not likely to be called upon to revise.

THE LATEST PHARMACY ACT.

The Western Australian Pharmacy and Poisons Act, 1894, which passed its third reading in the Legislative Assembly last month, is remarkable in some respects. The distinction between the Pharmacy Board and the Pharmaceutical Society which prevails in the other Australasian Pharmacy Acts is abandoned in this one, and consequently the Pharmaceutical Society of Western Australia becomes the administrative body. This Society is to have the enviable power of prescribing the subscriptions to be paid by pharmaceutical chemists, which must be paid to ensure the right of carrying on their business. Section 26 of the Act provides "that every person who sells poisons, whether a pharmaceutical chemist or not, must hold a licence from the Council," and the Council is allowed to make regulations prescribing the fee for licences to sell poisons. No licence to sell poisons is to be granted to any person other than a pharmaceutical chemist, except in places distant at least twenty miles from the nearest place in which a pharmaceutical chemist has open shop.

The Government retains some control, for, although the Council are to be elected by the registered chemists, the Governor may, from time to time, remove the President or any other member of the Council. Regulations made by the Council are subject to the confirmation of the Governor, who can also direct the cancellation of the licence of any person to sell poison on the advice of the Council, and may, with or without that advice, add fresh articles to the Poison Schedule.

The Act is to come into force on March 1, 1895. Anyone who has kept an open shop in Western Australia for the compounding and dispensing of the prescriptions of legally qualified medical practitioners from March 1, 1893, or earlier, will be entitled to registration, or if he has been employed as a dispensing assistant in an open shop for the same period, or for at least three years before that date has been continuously employed as a dispensing chemist in a hospital or other public institution. In all the other colonies, without exception, persons holding the certificates of the British Society are entitled to registration, and the Pharmacy Board or Pharmaceutical Society has no control over this matter. The Western Australian Society has secured greater power. Those will be entitled to registration who hold certificates or diplomas of competency from any society or college or board of pharmacy recognised by the regulations. It is open to the Society to refuse to recognise British certificates, while, at the same time, it will have power to recognise certificates from Great Britain and Ireland, any of the colonies, or from Europe.

Qualification for registration by examination is limited by the conditions that a four years' apprenticeship must have been served, and the examinations required by the Act must be passed. The subjects of the examinations are defined as practical pharmacy, chemistry, botany, materia medica, the Latin language, and such other subjects as may from time to time be prescribed by the regulations.

Under the sale of poisons, provision is made that "all poisons must be kept in some place securely locked up and fastened." All sales, unless by correspondence, are to be registered, and when ordered by letter the letters are to be preserved.

An important exemption is that "the Act is not to extend to the sale of any poison when made up or compounded as a medicine by a duly qualified medical practitioner, [or by] a pharmaceutical chemist for the purpose of sale according to the prescription of a duly qualified medical practitioner." The words "or by" enclosed in brackets apparently should have been inserted, but have been omitted, and their omission, if not already rectified, makes the phrase hard to interpret. As those medicines only are exempted which are compounded according to the prescription of a duly qualified medical practitioner, a chemist will not be able to supply a cough-mixture containing a few drops of laudanum without labelling the medicine "Poison" and registering the sale.

The Act is further "not to extend" to the sale of patent or proprietary medicines when sold by pharmaceutical chemists or other persons.

Deaths.

GADD.—Mr. Robert Gadd, M.P.S., proprietor of the business of Messrs. C. Gadd & Sons, chemists, 1 Harleyford Road, Vauxhall, died on November 27, at Littlehampton, where he had been staying for about six weeks for the benefit of his health. Mr. Gadd was in his 51st year, and succeeded his late father in the old-established business. He was much respected, and on Monday, when he was buried at Norwood, tokens of regret and sympathy were very general in the neighbourhood. The deceased gentleman was a younger brother of Mr. Henry Gadd, of Messrs. Evans, Gadd & Co., wholesale chemists and druggists, Exeter.

HICK.—On October 12, Mr. Allan Hick, pharmaceutical chemist, Wath. Aged 71.

HOOPER.—On November 30, at Camborn Lodge, Surbiton Hill Park, Surrey, Mr. William Hooper, pharmaceutical che-

mist, formerly of Russell Street, Covent Garden, in his 91st year. Mr. Hooper was one of the founders of the Pharmaceutical Society.

HORNER.—The death was reported at the drug-sales on Thursday of Mr. Frank Horner (of Horner & Sons) from typhoid fever.

JONES.—On November 17, Mr. Henry Stevens Jones, pharmaceutical chemist, Fulham. Aged 74.

MANFULL.—On November 15, Mr. H. J. Manfull, chemist and druggist, Nottingham. Aged 48.

WINTER.—On October 29, Mr. Richard Winter, chemist and druggist, South Shields. Aged 73.

WISE.—The death has occurred, under shocking circumstances, of Mrs. Wise, wife of Mr. J. Wise, chemist and druggist, Claypath, Durham. Deceased, who was but 36 years of age, fell across the fireplace and was so fearfully burned that when discovered by her husband in the evening she was dead.

ZIMMERMANN.—On November 29, Nich. Zimmermann, eldest son of Mr. Aug. Zimmermann, of Colonia, Bromley, Kent. Aged 27.

Personalities.

DR. ROBERT GIFFEN, C.B., F.R.S., of the Labour Department of the Board of Trade, has received from the Royal Statistical Society a gold Guy Medal in recognition of his long and exceptional services to statistical science.

MR. R. FEAVER CLARKE, chemist and druggist, of High Street, Gravesend, has been appointed the local representative for the Associated Board of the Royal College of Music and the Royal Academy of Music.

AT the recent triennial Municipal Election for the town and county of Carrickfergus 27 candidates were nominated for 18 seats, and Mr. Robert Cambridge and Mr. Daniel Bowman, J.P. (late chairman of the Board), registered druggists, polled second and ninth places respectively. At the first meeting of the new Board Mr. Bowman was reappointed chairman.

SIR THOMAS GRAINGER STEWART, M.D., the principal speaker at the Pharmaceutical Dinner in Edinburgh last week, is Professor of Clinical Medicine in the University of that city, and enjoys one of the most lucrative practices in the kingdom. He shares with Professor Leyden, who attended the late Czar, the distinction of being one of the leading authorities on Bright's disease in the world. He is a polished speaker, and is noted for his speeches in German, of which he is a master.

To the list of chemists who have been elected mayors we have to add the name of Mr. Simon Peter Brendon Newcombe, of Okehampton, Devon, who is now mayor of his

town. Mr. Newcombe has been in business there as a chemist and druggist for many years, and is a highly-respected citizen.

Notes of Novelties

KLINX.

THIS is the name which Messrs. Kay Brothers, of Stockport, give to a new cement which they have introduced. On first thoughts we were inclined to suppose that the makers of Coaguline might be content to rest on the reputation which that famous cement has brought them, but after examining into the properties of "Klinx" we would almost predict that it will beat coaguline. For these reasons: first, cements are mostly used for mending crockery and the like, and for that "Klinx" is exclusively intended; second, it is a liquid cement requiring no heating; and, third, it does its work well, and the klinxed articles stand heat (wet or dry) up to 400° F. We think, therefore, that "Klinx" is a welcome addition to the chemist's stock, and that it will be a popular article.

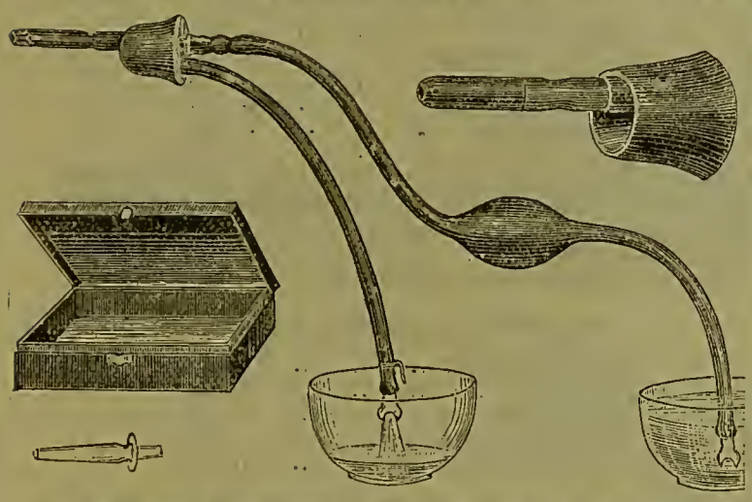
HALFORD'S ESSENCE OF MEAT JELLIES.

MESSRS. HALFORD, of St. Martin's Lane, the well known makers of curry-powder and other condiments, have introduce, a series of meat essences, especially for invalids, which in point of appearance, flavour, and purity seem to leave nothing to be desired. Their essences are those of beef, mutton, and chicken. The products are clear firm jellies, with the characteristic odour and flavour of the meats they represent, and we are assured—and our own examination confirms the statement—that they contain no

added preservative. The jellies will be tempting to invalids generally, but they would be more so we think if supplied in glass vessels instead of in tins. The proprietors inform us that they are now arranging to supply them in glass jars, though they state at the same time that the tins are prepared by a special process, so that no metallic contamination is possible. Certainly none is evidenced in the samples before us.

THE "ZULA" SYRINGE.

The figure which we give here represents a new vaginal syringe which is being offered by the makers through all the druggists' sundries houses. The syringe consists of two parts, one an ordinary black rubber ball syringe with vulcanite end-piece, and the other a vulcanite nozzle and plug to which an outflow tube is attached. It will be seen from the illustration that the vaginal pipe (which has a flexible pipe) is attached to the upper part of the plug, and the lower part



of the latter is perforated, and to the orifice of this perforation the outlet tube is attached. As the vulcanite plug closes the mouth of the vagina when the syringe is in use, there is complete and continuous irrigation. The douche pipe can, if desired, be attached to a fountain enema, and the syringe can be used with a bone rectal pipe supplied with it. The syringe is a well-made article, but apart from that it has advantages which merit attention, and we understand that it is favourably spoken of by medical men who have used it.

American Sulphuric Acid.—According to Lunge the annual production of sulphuric acid by works in the United States is valued at $6,500,000.

The Action for Slander against Messrs. Keating.—On Saturday, December 1, in the Court of Session, Edinburgh, the argument was heard in the reclaiming note against Lord Wellwood's decision in the Outer House in the action by Wm. Foster, wholesale drysalter, 94 High Street, Edinburgh, against the firm of Thomas Keating, insect-powder manufacturer, London, for payment of 1,000*l.* as damages for slander. The alleged slander was contained in the condescendence of an action of suspension and interdict which the present defendants raised against the plaintiff and afterwards abandoned. Lord Wellwood had allowed two issues for the consideration of the jury before whom the action might be tried—viz., (1) whether the defendant had wrongfully obtained interim interdict on October 24, 1893, against the pursuer, and (2) whether the defendant had not in his statements falsely, calumniously and maliciously slandered the plaintiff. Lord Wellwood also allowed a counter-issue for the defendants, by which they raised the question again as to whether the plaintiff sold and delivered to persons named insect-powder as Keating's which was not Keating's. Ultimately the first issue and the counter-issue were withdrawn, and the second issue was approved of.

CHEMICOSCAPES—I.

The Idealist.

The idealist is not a successful business man, and knows it. That is one of his wife's pet grievances, for most of all does she resent her husband's ready acquiescence in her reiterated depreciations. If only he would overcome his provoking meekness and contest the point, it would give her a welcome chance to vary the monotony of her life by indulging in a really first-class quarrel; but she has no luck. When she was a bright young girl with fairy hair and merry eyes she believed in the rosy future her husband mapped out with such enthusiasm; but an eighth baby generally opens its eyes on a limp mother with tousled locks and a drawn, anxious face. Her Octavius was no exception to the rule. In the old days her husband had money, and bought a nice little business to provide an income until he made the great discovery that was to open up the golden road to fame and fortune. To that end he turned over the management of his business to two or three most exemplary young men. They promptly ceased to be exemplary, and amused themselves by fiddling about the place while his Rome burnt. In that little laboratory he so rarely left, his at first hopeful but latterly feverish fingers somehow failed to mould abstract idea into concrete fortune. With growing uneasiness he chased his will-o'-the-wisps until daylight broke over the swamps.

When the real meaning of his decreasing returns dawned upon him, he discharged his assistants, and, having no longer much use for a dispensing-counter, converted it into an analytical bench, so that he could manipulate his balance and microscope in the intervals of serving customers. There were not too many of these, and they found him singularly apathetic, although a chance word might unlock the floodgates of his special knowledge when his prolix technicalities would bore to the verge of distraction. Indeed, the pharmacy he had consistently neglected for so many years at length barely provides him with bread, butter, and experimental material. His bent shoulders and shrunken banking-account have become the scoff of the successful, especially of those acute business men who, having pirated his inventions, owe so much of their success to his patient labour and pitiable hardships. Bustling commercial travellers who, by chance, climb the steps into his shop quickly feel the distressful atmosphere of the place and take their marching orders with unwonted meekness. Everyone admits his scrupulous honesty; no one, not even his dearest friends, accuses him of anything worse than brains; but in the market-place honesty is at a discount, and idealists are the despair of their landlords.

Nevertheless, this man of hazy ideas, dogged purpose, and irreproachable honesty is the tiny speck of leaven that permeates the seething mass of traders and keeps it sweet and clean. Not for himself alone does he expend his health and energy, for he has set out on his life-journey with a lofty determination to do something to benefit humanity and leave the world better than he found it. At a distance from the distracting noise and bustle of the lamp-lit city he stumbles along his dark valley with hopeful eyes ever fixed on the silent stars. In their friendly constancy he finds renewed encouragement, and plods on in the daily expectation of achieving his El Dorado at the next turning. And that is the secret of his charmed existence, for hopeful labour honourably wrought is the quintessence of happiness.

Clerk: "Are you going to discharge me, then?" Druggist: "Yes; I think we can dispense without you."

SOME WINTER REMEDIES.

THE advent of cold weather is the sign of many minor ailments for which the aid of the chemist and druggist will be sought. There are few volumes of this journal which do not contain practical advice and formulæ which will guide the druggist in such matters, and we specially commend the article "Drugs and Diseases" in the 1893 DIARY for careful perusal. Meanwhile, and for the benefit of many hundreds of new subscribers, we append some medical formulæ and hints culled from recent literature.

Toothache-essence.

Dr. L. Cyrus Allen states that the following seldom fails to give temporary relief:—

Ol. caryophylli	♏xv.
Menthol.	ʒij.
Chloroformi	ʒj.
Tr. aconiti	ʒiij.
Spt. rectificat.	℥iss.

M.

Directions: Cleanse out the cavity thoroughly (preferably by syringing) and apply on cotton. Also rub a little on gums.

Sold as "Toothace-essence" with these directions (and no other recommendation whatever) the remedy is not liable to stamp-duty.

Camphor-ice.

Oil of almonds	℥iv.
Spermaceti	℥viij.
White wax	℥iv.
Camphor	℥j.

Melt together over a water-bath, and pour into moulds of proper size and form.

Camphor Ice with Glycerine.

Recommended by Mr. A. J. Reeder in the *American Druggist*:—

Spermaceti	℥iv.
Ceræ albæ	℥iv.
Camphor pulv.	℥iv.
Sodii boratis	℥ij.
Stearin.	℥xvj.
Glycerin.	℥xxxiij.
Ol. lavandulæ	♏xxv.
„ limonis	♏xxv.
„ caryophylli	♏xxv.
„ bergamot.	♏xxv.

Melt the wax, spermaceti, and stearin, then dissolve the camphor in the warm mixture; mix the borax with the glycerine, and stir into the hot mixture gradually, constantly agitating. Pour into suitable moulds.

Emollient Cream for Chapped Hands.

Quince-seed	ʒiss.
Boric acid	℈j.
Glycerine	℥ij.
S.V.R.	℥iij.
Carbolic acid	gr. x.
Eau de Cologne	ʒij.
Oil of lavender	♏xx.
Glycerite of starch	℥ij.
Water to	℥xvj.

Dissolve the boric acid in 8 oz. of water, macerate the quince-seed in the solution for three hours, strain, add the glycerine, carbolic acid, and glycerite, and mix well. Mix the S.V.R., eau de Cologne, and lavender oil, add the mixture to the mucilage, and mix the whole thoroughly.

Borico-salicylic Glycerine.

This is an excellent antiseptic, and the addition of a small percentage of it to any glycerine-preparation for the hands and face is decidedly beneficial:—

Boric acid	℥j.
Salicylic acid	℥j.
Distilled water	℥j.
Glycerine	℥iij.

Put the whole of the ingredients in a flask, bring to the boil, and add 45 grs. of calcined magnesia. Continue the heating until all the water has evaporated, and, when cold, make up to 5 fl. oz. with glycerine.

Ointment for Chapped Hands.

Menthol.	gr. xv.
Salol.	gr. xxx.
Ol. olivæ	ʒss.
Lanolini	℥iss.

M.

Apply night and morning, rubbing in well.

Boro-glycerine Lanolin.

A Berlin preparation, which is beneficial for chapped hands and broken chilblains:—

Acidi borici	ʒv.
Glycerini	℥iiss.
Aq. destillatæ	℥iss.

Dissolve by the aid of heat, and mix with the following:—

Lanolin. anhydros.	℥xij.
Ol. olivæ	℥iv.

Put this up in collapsible tubes. Perfume to taste.

Codeine Cough-syrup.

Codeine	gr. xvj.
Powd. ammonium chloride	℥j.
Ipecac. wine	ʒx.
Spirit of nitrous ether	ʒx.
Syrup of squill	ʒx.
Syrup of wild cherry to	℥xvj.

Dissolve the codeine in about 2 drs. of water with the aid of a small quantity of dilute hydrochloric acid; then dissolve the ammonium chloride in the syrup of wild cherry, and add the other ingredients, finally the codeine solution, and mix well.

Dose: A teaspoonful every three or four hours.

Mixture for Bronchitic Asthma.

Extracti strammonii	gr. ½.
Potassii iodidi	gr. v.
Ammonii carbonatis	gr. iv.
Tincturæ lobeliæ ætherialis	♏v.
Aquæ chloroformi ad	℥ss.

M.

This dose every four to six hours.

Pectoral Elixir.

Pulv. glycyrrhiz.	℥ss.
Pulv. acaciæ	℥ss.
Tinct. camph. co.	℥ij.
Vin. antimon.	℥j.
Spt. æther. nitros.	℥ij.
Aquæ	℥iv.
Ext. pruni virg.	℥j.
Elixir. aromatic. ad	℥xvj.

Rub the liquorice and acacia with the water, add the other ingredients gradually, and strain through absorbent cotton.

Dose: A teaspoonful.

Neuralgic and Toothache Powders.

	Grs.
Acetanilide	5
Lupulin	5
Powdered sugar	5

Make a powder.

Three powders to be taken at intervals of four hours.

	Grs.
Acetanilide	5
Sodium salicylate	5
Caffeine	1

Make a powder.

To be taken as above.

The marvellous influence of antipyrin in abating neuralgic headache has led to considerable abuse of the remedy. Some people are peculiarly susceptible to its bad influences. In view of this susceptibility, and of the uncertainty which to an extent exists as to the best moderate dose of antipyrin, we may conclude that 5 grains three times a day is quite sufficient as a beginning dose in the vast majority of cases, and that in a fair proportion of instances even smaller quantities will be equally beneficial.

Trade Report.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., *December* 6.

The Liverpool Market.

Our Liverpool correspondent, writing on December 4, says that *Gum acacia* continues in small supply, and the limited quantities offering are selling steadily at better prices. *Canary-seed* has fallen away further during the week, and Turkish seed is now procurable at 45*s.* per quarter. Spanish is steady. *Castor-oil* is not quotably higher, but shows a firmer tendency for good seconds Calcutta, 2*d.* for Madras, 2$\frac{1}{16}$*d.* for first pressing French. *Beeswax* is moving off steadily at full prices. A large parcel of *Gambia* realised 7*l.* 8*s.* 9*d.* at auction, and a small lot fetched 7*l.* 10*s.* per cwt. One lot of *Brazilian* was sold for 7*l.* 10*s.* per cwt. *Chilian Anise* is unchanged in value, but holders are, if anything firmer in their views, at 25*s.* per cwt. For several bags of *Kola nuts* just landed 10*d.* less was bid at auction and refused. Owners ask 1*s.* 3*d.* per lb. *Chilian spermaceti* is firmly held at 1*s.* 4½*d.* per lb.

Smyrna Opium Telegram

On Wednesday evening our Smyrna correspondent telegraphed as follows:—"During the week which closed to-day 60 cases of opium have changed hands here at advancing prices, the parity of 9*s.* 10*d.* per lb., f.o.b., being paid for fair new crop manufacturing; and that of 10*s.* per lb. for fair old crop manufacturing opium. The market closes very firmly with an advancing tendency, and buyers at 2*d.* per lb. advance on the figures already paid, while opium holders are very reluctant to sell."

The Amsterdam Cinchona Market.

Our correspondent writes from Amsterdam, on December 5:—All the analyses for our cinchona-bark sales on December 13 have been published. The manufacturing bark contains about 32½ tons sulphate of quinine, or 5 06 per cent. on the average:—About 4½ tons contain 1 to 2 per cent. sulphate of quinine; 37½ tons, 2 to 3 per cent.; 104 tons, 3 to 4 per cent.; 215 tons, 4 to 5 per cent.; 134 tons, 5 to 6 per cent.; 68½ tons, 6 to 7 per cent.; 54½ tons, 7 to 8 per cent.; 14 tons. 8 to 9 per cent.; 8½ tons, 9 to 10 per cent.; 2 tons, 11 to 12 per cent.

ACID (CITRIC).—Unaltered and very difficult to place. From 1*s.* 2*d.* to 1*s.* 2¼*d.* per lb. is quoted on the spot. *Concentrated juice* offers at 13*l.* per ton f.o.b.

ACID (TARTARIC).—Steady, but slow of sale. *English* made acid is quoted according to brands at from 10¾*d.* to 11*d.* per lb. by the makers, *foreign*, powdered or in crystals, at 10⅜*d.* per lb.

ALKALI.—Dearer, 58 per cent. being now quoted at 67*s.* 6*d* per ton in bags, and at 72*s.* 6*d.* per ton in casks, free rail Lancashire.

ALOES.—Good quality *Cape* aloes sold to-day at an advance of 1*s.* per cwt. Fifty-five packages were offered, and of these 49 sold at from 23*s.* per cwt. for good bright hard down to 10*s.* per cwt. for low quality. *Curaçao* aloes is quite firm: of 52 packages offered, almost the whole sold at from 40*s.* up to 62*s.* 6*d.* per cwt. for good to fine bright livery and brown; common drossy realising 12*s.* 6*d.* down to 11*s.* per cwt. *Socotrine* aloes is firm at 60*s.* per cwt. for fair, and 75*s.* per cwt. for good bright quality.

AMMONIA (CARBONATE) quiet, at the price of 4*d.* per lb. in jars, 3⅞*d.* per lb. in kegs, and 3¾*d.* per lb. in casks. *Liquid ammonia* may be had at 3½*d.* per lb.

ANISE.—Seventeen bags sold, without reserve, at from 23*s.* to 24*s.* per cwt. Fine green *Spanish* is worth 40*s.* to 42*s.* 6*d.*, good new *Russian* 26*s.* to 27*s.* per cwt.

ANNATTO-SEED.—Of several lots offered at the auctions, about 9 bags sold—some at 2½*d.*, and others at 3¾*d.* Seven bags were also sold at from 1*d.* to 2*d.*, subject to approval.

ARECA.—A parcel of 30 bags sold, without reserve, at from 8*s.* to 9*s.* per cwt.

ARROWROOT.—A rather firmer tone has prevailed in the arrowroot market lately, from 2*d.* to 2⅝*d.* per lb. having been paid a few days ago for about 400 barrels medium to good *St. Vincent.*

ASAFŒTIDA.—More is coming in, but the competition is still keen. At to-day's auctions fine qualities were, perhaps, slightly easier, but medium grades realised full figures, 50 cases selling at from 65*s.* per cwt. for ordinary stony, up to 6*l.* per cwt. for fine almondy.

BALSAM PERU.—Steady, with small sales of good quality at 6*s.* 6*d.* per lb.

BENZOIN.—Unchanged, but firmly held. Of *Sumatra* gum about 55 cases sold at 8*l.* to 9*l.* per cwt. for good to fine bright pale almondy seconds, all more or less false packed, 5*l.* 5*s.* per cwt. for ordinary seconds, very false packed, and 45*s.* per cwt. for very low. A small parcel of low *Palembang* gum sold without reserve at 25*s.* per cwt., and of 35 cases fair almondy glassy *Penang* 9 cases sold at 72*s.* 6*d.* per cwt.

BISMUTH.—Among our imports from Hamburg this week was one of 146 sacks bismuth, by the *Wega*, and another of 99 serons by the *Ophelia*.

BUCHU.—Unchanged. Out of a parcel of 21 bales, 4 sold at 2¼*d.* per lb. for round yellowish mixed.

CAFFEINE.—One tin of caffeine offered to-day was bought in at 20*s.*, a bid of 15*s.* being refused. We understand that the makers are offering at 16*s.* for December-January, at which price, however, the article can be obtained to-day at second hand, the market being easier.

CALUMBA is 2*s.* 6*d.* lower for good bright. Of 88 bags offered at auction without reserve the bulk sold at 10*s.*, one lot at 10*s.* 6*d.* Another lot of 40 bags, also without reserve, brought from 12*s.* 6*d.* to 13*s.* 6*d.*

CAMPHOR (CRUDE).—A dull market, prices still tending easier. For arrival *Chinese* camphor is offering at 95*s.* per cwt. c.i.f., while *Japanese* January-February shipment may be had at 102*s.* 6*d.* per cwt. c.i.f.

CANELLA ALBA.—Out of a parcel of 14 bales, 6 sold at 30*s.* down to 28*s.* 6*d.*, and 27*s.* for damages.

CARDAMOMS.—About 84 packages sold to-day at the following figures:—*Ceylon-Mysore*, good bright pale, bleached, 2*s.* 4*d.* to 2*s.* 7*d*; fair to good bright, small to medium, 1*s.* 7*d.* to 1*s.* 10*d.*; ordinary small brownish mixed, 1*s.* 2*d.* to 1*s.* 6*d.* per lb. *Ceylon-Malabar*, fair medium to bold palish, 1*s.* 6*d.* to 1*s.* 9*d.* per lb.

CASSIA FISTULA.—Of 40 bags thin, slightly wormy pods, 20 sold, subject to approval, at 19*s.* 6*d.* per cwt.

CASTORUM.—There has been another arrival of 3 cases castorum, consigned to the Hudson's Bay Company. The parcel came from Montreal by the *Austrian*. One package, about one lb in weight, was offered without reserve at to-day's sales, and sold at 52*s.*

CHLORATE OF POTASH.—*British* brands are ¼*d.* per lb. lower since last week, and the market closes quietly without much desire to buy at the following quotations:—Spot, London, 5⅜*d.* per lb.; Liverpool, 5¼*d.* per lb. f.o.b.; 1895 delivery, 5⅜*d.* per lb. f.o.b. Liverpool. *Swedish* chlorate of potash is still offering at 5*d.* per lb. f.o.b.

CINCHONA.—The average equivalent of sulphate of quinine contained in the Java cinchona-bark to be offered for public sale in Amsterdam on December 13 is very high—viz., 5·06 per cent. The 8,224 packages of bark declared for sale have an aggregate weight of 699,785 kilos., representing 34,248 kilos., or nearly 1,200,000 oz. of quinine. At to-day's

sales 42 bales spurious *Calisaya* sold, from 10*d.* to 11½*d.*; two packages of inferior grade at 6*d.* Of *Red bark* 19 packages sold at from 6*s.* 8*d.* for fair reddish broken down to 10*d.* for very common, almost colourless, bark.

CLOVES.—*Zanzibar* cloves closed rather firmer last week, 2$\frac{25}{32}$*d.* per lb. being paid for January-March and February-April delivery; but since then the market has again become flat, and there are now sellers at 2$\frac{21}{32}$*d.* per lb. for January-March.

COCOA-BUTTER.—At auction on Tuesday 400 2-cwt. cases of *Cadbury's* cocoa-butter sold at an average advance of about ⅛*d.* per lb. upon the prices realised at the November auction, the range of prices on the present occasion being from 12¾*d.* to 13¼*d.* per lb.

CODEIA.—Steady, at 12*s.* 3*d.* to 12*s.* 6*d.* per oz.

COLOCYNTH.—At auction to-day 5 cases small to medium partly broken pale *Turkish* apple were offered. Two of these sold at 1*s.* 6*d.* per lb., ordinary broken at 1*s.* 3*d.* per lb., a reduction of 3*d.* per lb.

CORIANDER.—*East Indian* coriander-seed continues to arrive. This week 300 bags were received from Bombay per *Caledonia*. On the spot from 33*s.* to 35*s.* per cwt. is asked for good coriander.

CREAM OF TARTAR unaltered, but dull of sale. On the spot the prices are:—Best white *French* crystals, 64*s.* to 65*s.*; *German* powder, 68*s.* to 69*s.* per cwt. For shipment French crystals are quoted at 59*s.* per cwt. f.o.b.

CROTON-SEED.—One bag sold to-day at 11*s.*

CUMIN-SEED.—Four bags offered sold, without reserve, at 34*s.*

CUTTLE FISH.—Twelve casks sold to-day at 2*d.* per lb.

DRAGON'S-BLOOD.—Four cases of fair bold lump sold at 7*l.* 12*s.* 6*d.* to 7*l.* 15*s.* to-day.

ERGOT OF RYE.—Firm. Two bags old *Spanish* ergot sold at the auctions to-day at 10½*d.* Of old *Russian* five bags sold at 9¼*d.* per lb. From Hamburg 11*d.* per lb., c.i.f., is quoted.

GALANGAL ROOT.—Seven bales sold at auction to-day at 20*s.* per cwt.

GAMBOGE.—The market is steady. A parcel of 4 cases sold at 10*l.* 5*s.* to-day.

GUAIACUM.—A few cases of rather dull to fair quality sold to-day at 1*s.* 2*d.* to 1*s.* 8*d.* per lb.

GUINEA GRAINS.—At to-day's sales 7 bags sold at 21*s.* 6*d.* to 22*s.*, subject to the buyer's approval.

HONEY.—*Californian* honey is from 3*s.* to 4*s.* lower. Ninety-nine cases offered to-day; all sold at 35*s.* 6*d.* down to 32*s.* 6*d.* *Jamaica* honey sold at 29*s.* to 30*s.*, and 4 barrels at 28*s.* 6*d.*, subject to approval.

IPECACUANHA.—Rather slow of sale, but without quotable change in price. Only 16 bales *Brazilian* (*Rio*) root were sold to-day, realising from 4*s.* 6*d.* to 4*s.* 11*d.* for partly damaged, fair annulated, to 5*s.* to 5*s.* 2*d.* per lb. for good bright. Fourteen bags fair plump, but damaged *Cartagena* (*Colombian*) root sold at 3*s.* 1*d.* to 3*s.* 4*d.* per lb.

JABORANDI-LEAVES.—Three bales sold to-day at from 7*d.* to 8½*d.* per lb.

KOLA.—At auction to-day 3 bags small to medium brown *East Indian* were bought in at 1*s.* 3*d.* per lb. Another parcel of 8 bags sold without reserve at 1*s.* 3*d.* per lb., showing a reduction of quite 2*d.* per lb. Our imports this week amount to 23 bags from *Sierra Leone* (W.C. of Africa), and to one package from Jamaica.

LINSEED is lower, and *Crushed* seed has lately been reduced in price by several makers. The present quotation is 16*s.* per cwt. for *Light* or *Golden*.

LIQUORICE-ROOT.—Fifty-three bags offered to-day sold without reserve at 2*s.* 6*d.*

MAGNESIA.—The following are the current quotations:—*Carbonate* in lump or powder, packed in chests, 40*s.* per cwt.; *calcined*, in bulk, 10*d.* per lb.; in 1-lb. bottle 1*s.* 4*d.* per lb.; *phosphate*, 1*s.* per lb.; *hydrated oxide* (taken in large quantities), 12*l.* per ton.

MENTHOL has kept quiet but steady, at 16*s.* 6*d.* to 17*s.* per lb. on the spot.

MORPHIA.—Steady, but unaltered. Powder may be had at 4*s.* 9*d.* per oz.

MUSK.—Of Tonquin pods four tins sold, at 20*s.* to 24*s.* per oz. for third pile, partly adulterated. One tin of grain-musk was also sold at 10*s.*, and a tin of empty pods at 1*s.* per oz. Privately first pile Tonquin pods are reported much dearer.

MYRRH.—Twenty casks dull unsifted sorts sold to-day at 65*s.* to 67*s.* 6*d.* per cwt.

OILS (ESSENTIAL).—*Lemongrass* oil closes quietly, at 1¾*d.* per oz. on the spot for native brands. *Citronella* oil, fair native quality, may be had at 11*d.* to 11½*d.* per lb. Japanese *oil of peppermint* is firmly held, at 8*s.* 9*d.* for oil guaranteed to contain 40 per cent. of menthol, and at 7*s.* 3*d.* per lb. for so-called dementholised oil. The quotations for arrival are:—40 per cent. oil, 7*s.* 6*d.* per lb. c.i.f.; dementholised oil, 5*s.* 9*d.* per lb. c.i.f., December-January shipment. American oil of peppermint offers at 10*s.* 3*d* per lb. for HGH. *Oil of lemon*: five cases, offered without reserve at to-day's sales, sold at 1*s.* 8*d.* per lb. *Eucalyptus oil*: of 26 cases 12 sold at 9*d.* to 9¼*d.* per lb. *Anise oil*: much lower on the spot, a few cases being apparently knocked down at to-day's auctions at 6*s.* 9*d.* per lb. *Cassia oil* is held steadily at 4*s.* 3*d.* per lb. for good quality.

OPIUM.—The London market is very firm at the prices quoted last week; but there are few sellers at present, and the business reported this week is exceedingly limited in compass. *Persian*, which is now almost entirely in second hands is also very firmly held. Our Smyrna mail news bears the date of November 24. On that day telegrams had been received, say our correspondents, painting the situation in the opium-growing districts in the darkest colours. Continued drought, it is said, places the prospects of the coming crop in serious jeopardy. This unfavourable news, which received confirmation from all parts, caused a sudden revival of speculative interest, and brisk buying took place, mostly on the part of speculators, at steadily advancing prices, holders becoming more difficult of approach after each fresh transaction. The total sales for the week amount to 83 cases—viz., 9 cases *Yerli* tale quale at the equivalents of 9*s.* 7*d.* rising to 10*s.* per lb. f.o.b.; 20 cases new current *manufacturing* at 9*s.* 6*d.* rising to 9*s.* 10*d.* per lb., f.o.b.; and 54 cases good seconds rising from 9*s.* 6*d.* to 9*s.* 10*d.* per lb., f.o.b. Our correspondents conclude:—We believe that the value of the drug will be maintained for several months, and that, if business continues within the next ten or fifteen days, prices will be run up 1*s.* to 1*s.* 6*d.* per lb. above the present figures. We are quite confident that no money can be lost on present quotations. To-day, sightly seconds are worth about 10*s.* per lb., f.o.b.; good *Karahissar*, with option of examination, 10*s.* 6*d.* per lb., f.o.b.; and good *Yerli*, same terms 10*s.* 8*d.* per lb., f.o.b. The arrivals here, since the beginning of the season, have been 1,911 cases, against 1,007 cases in the corresponding period of 1893. The following information comes from our Constantinople correspondent, dated December 1: "The close of the week brings a resumption of business in Smyrna, and a consequent stronger feeling all round—apparently most marked in London, where a few odd cases of ours were sold at 6*d.* rise on the price offered two or three days ago. It is now certain that the autumn sowings have been a complete failure so far as Asia Minor is concerned, and as usual under such circumstances a host of native speculators are prepared to follow up any London or American buying. One of the largest Smyrna merchants (uninterested in opium) writes us on the 21st ult. as follows: 'Should rain not fall plentifully and quickly it will be a regular calamity for the country. Indeed I may say that matters look very black for Asia Minor already.'" The opium stock in Constantinople on December 1 was about 607 cases—viz., 450 *new druggists'*, 55 old *Malatia*, 22 old *Tokat*, and 80 new *soft shipping* (*Tokat*, *Zille*, &c.). The arrivals since the opening of the season were 615 cases druggists' and 438 cases *soft shipping*, total 1,112 cases, against 706 cases *druggists'*, and 334 soft shipping, total 1,091 cases, in the corresponding period of 1893.

ORANGE-PEEL.—Fourteen bags sold to-day, without reserve, at 1¾*d.* per lb.

QUASSIA.—A few sales have recently been made at slightly improved prices—viz., 80*s.* per ton for fair logs on the spot, and 85*s.* per ton, landed terms, for similar quality for shipment.

QUICKSILVER.—The principal importers still hold to their nominal price of 6*l.* 15*s.* for bottles; but second-hand holders are rather firmer at 6*l.* 7*s.* 6*d.*

QUININE.—Without animation. Second-hand holders are prepared to sell *German* brand in bulk at 11¾*d.* per oz. spot.

RHUBARB.—The *Tantalus* has brought a consignment of 50 cases from Shanghai, and the *Northe* 22 cases from Marseilles. Very little was sold to-day.

SAFFRON.—One tin sold, without reserve, at 13*s.* to-day. This was common quality. From Spain prices are quoted rather higher.

SARSAPARILLA.—Of the fairly large quantity offered at to-day's auctions, 47 bales sold, at prices ranging from 1*s.* 1*d.* to 1*s* 4*d.* for fair grey *Jamaica*; damaged *Honduras* realised 1*s.* 2*d.* to 1*s.* 3*d.* per lb.

SENEGA.—A flat market. There at sellers of fair quality at 1*s.* 4*d.* per lb.

SENNA.—Of *Tinnevelly* leaves about 80 bales were offered to-day, and mostly sold with good competition at an advance of about ½*d.* per lb., ordinary small darkish to fair medium greenish leaves bringing from 1¾*d.* up to 4¼*d.* per lb. The *Caledonia* has brought 224 bales from Bombay.

SHELLAC.—The market closed quietly at the end of last week, with buyers of TN standard *Second orange* lac at 108*s.* per cwt. There has been no public sale this week, and very little business privately.

SOY.—Thirty-five casks of *China* soy were put up at the auctions but were bought in at 1*s.*, a bid of 9*d.* being refused for them.

STAR-ANISE.—It is persistently reported from China that there will be very little star-anise available this year, the bulk of the crop having been used for distilling purposes. For arrival, 69*s.* c.i f. was asked a few days ago.

STAVESACRE-SEEDS have been sold at 100*s.*, but we understand that they cannot now be obtained at that price, the drug being exceedingly scarce.

STROPHANTHUS-SEED was bought in at 4*s.* 8*d.*; damages at 3*s.* 6*d.* for greenish *Kombé* variety.

TAMARINDS.—Of *West Indian* tamarinds 17 packages sold at 12*s.* per cwt.

TEA.—The Indian sales are irregular in prices, but, on the whole, tolerably steady at last week's quotations. The tone is distinctly weak, and if any large quantity of tea is forced on the market before Christmas we shall see a further fall. Common Souchong can be bought at 6¼*d.*, and Pekoes, with fair style but poor liquor, at 7*d.* to 7¼*d.*; but really good liquoring teas are in fair demand, at steadier rates. *Ceylons*, on the whole, showed a further fall on Tuesday, there being plenty of sweet-liquoring Souchong at 6¼*d.*, and passable Pekoe at 7*d.* to 7½*d.* Broken Pekoes, from 9*d.* to 1*s.*, are very irregular, and bargains may be picked up here and there. *Congous* are very quiet and a shade easier. Scented teas keep steady, and there is nothing in first hands now to be bought under about 4½*d.*

TONCA-BEANS.—*Angostura* beans are held for very high prices here, the London quotation being much above the New York parity. *Pará* beans are about 1*d.* per lb. dearer since last week.

VANILLA.—In good demand at from 1*s.* to 2*s.* per lb. advance.

WAX (BEES').—Of *Jamaican* wax about 16 packages sold at to-day's auctions at 7*l.* 12*s.* 6*d.* to 7*l.* 15*s.* Of yellow *Madras* 7 cases sold to day at 6*l.* 12*s.* 6*d.* to 7*l.* Two cases *Australian* wax were disposed of at prices ranging from 7*l.* to 7*l.* 5*s.*, and 9 cases of *Chilian* bees' wax were bought in at 8*l.*, a bid of 5*l.* 10*s.* being refused. This shows a steady market.

WAX (JAPAN) lower. Good pale squares are not worth more than 29*s.* per cwt. on the spot; and for arrival there were sellers a few days ago at 26*s.* per cwt., c.i.f. terms.

LONDON DRUG STATISTICS.

THE following figures refer to the movement of some of the principal kinds of drugs at the public warehouses in he Port of London during the eleven months from January 1 to November 30, of 1894 and 1893, and to the stock on November 30 :—

Article	Stocks		Imported		Delivered	
	1894	1893	1894	1893	1894	1893
Aloes.....cs, &c.	4,610	6,124	1,821	3,572	3,437	3,251
„ .....gourds	3,350	666	813	452	719	587
Anise, Star .....cs	487	622	—	712	126	329
Arrowroot ....brls	10,200	7,085	16,569	15,790	13,858	13,987
„ bxs & tins	2,542	986	4,015	2,665	2,396	2,112
Balsams....cks, &c.	1,194	1,947	707	1,952	1,409	1,359
Borax .....pkgs	—	5	376	20	381	276
Calumba..... bgs.	1,074	2,065	865	3,587	1,779	2,022
Camphor ....pkgs.	4,204	5,074	10,885	11,540	11,563	9,981
Cardamoms..cs, &c.	1,649	516	2,977	2,066	2,397	2,100
Cinchona bark :—						
S. American ..os	64	52	30	16	18	20
„ bls, &c.	19,690	22,395	8,812	7,048	11,435	7,611
E.I. Ceylon, and Java cs	187	146	207	67	122	64
E.I. Ceylon, and Java bls	12,767	15,614	17,459	27,588	19,234	27,712
Cocc. Ind. ....bgs	227	570	125	397	456	514
Cream of tartar cks	—	26	69	31	95	16
Cubebs .....bgs	282	351	472	565	560	533
Dragon's Blood ..cs	176	108	330	164	251	174
Galls, China, &c. cs	537	899	2,504	2,535	2,435	2,131
Trky & Prsn..sks	3,679	2,652	3,963	3,509	2,873	3,094
Gums—						
Ammoniac....pgs	92	88	158	22	159	80
Animi & Copal „	9,717	10,975	18,250	17,282	18,356	16,427
Acacia..... „	9,980	12,662	15,208	20,932	18,952	20,439
Asafœtida .. „	107	56	855	554	931	582
Benzoin .... „	1,716	3,109	1,673	3,469	3,005	2,457
Damar..... „	3,289	4,115	6,353	5,289	6,575	4,689
Galbanum .. „	11	15	1	7	5	23
Gamboge .. „	221	193	418	345	397	309
Guaiacum .. „	142	217	128	177	178	155
Kino ..... „	14	4	18	15	8	13
Kowrie .....tns	2,852	1,715	4,293	3,354	3,730	2,577
Mastich ....pkgs	11	22	28	29	39	28
Myrrh ..... „	493	333	711	494	438	385
Olibanum .. „	3,991	2,204	9,185	6,268	7,914	6,416
Sandarach .. „	710	830	964	942	1,122	1,061
Tragacanth „	2,631	1,677	5,835	6,083	5,038	5,204
Ipecacuanha bls&pgs	950	806	1,422	1,648	1,276	1,553
Jalap .....bls	172	182	320	515	299	389
Lac Dye .....chts	2,914	4,652	—	—	1,486	235
Nux Vomica ..pkgs	940	559	3,451	1,372	2,897	1,412
Oils—						
*Anise .....cs	39	100	126	284	171	193
*Cassia ..... „	109	62	202	215	150	234
Castor.....cks	87	267	512	618	603	516
„ .....os	1,670	1,397	2,963	3,305	2,750	3,667
Cocoa-nut ....tns	725	544	2,821	2,682	2,802	2,909
Olive ....oks, &c.	1,160	944	3,285	2,887	2,508	2,457
Palm .....tns	4	11	54	61	52	59
Rhubarb .....chts	1,120	987	1,643	1,228	1,426	1,248
Safflower ..bls, &c.	147	118	168	158	130	100
Sarsaparilla ....bls	235	347	916	1,169	1,093	1,287
Senna .....bls, &c.	2,457	4,697	3,054	7,022	4,524	4,450
Shellac—						
Orange .. cs	13,198	18,157	30,985	26,290	37,224	28,227
Garnet .. „	2,083	4,301	7,282	9,123	9,262	8,886
Button .. „	4,370	3,164	10,277	7,802	8,996	8,064
Total ....chts	19,651	25,622	48,544	43,215	55,482	45,177
Sticklac .....cs.	503	971	2,824	4,602	3,010	3,819
Gambier .....tns	472	768	9,833	9,255	10,163	8,995
Cutch ..... „	2,783	2,349	2,567	2,415	2,111	2,162
Turmeric, Bengal „	112	95	121	274	158	239
Madras, &c. .. „	678	259	999	711	573	617
Total	790	354	1,120	985	731	856
Vermilion chts, &c.	16	82	16	39	46	25
Wax (bees') bls&sns	431	902	3,912	3,877	4,263	3,911
„ oks & os	673	1 166	3,028	2,524	3,434	2,917
„ (Japan)cs, &c.	1,392	928	1,683	1,507	1,150	1,001

* These statistics do not include the oils at Smith's Wharf and Brewer's Quay, as those warehouses decline to supply returns.

DIPHTHERIA SERUM.—At a meeting of German physicians in Berlin, on Wednesday, Professor von Bergmann spoke in terms of disapproval of the new treatment of diphtheria. Professor Virchow was present, and he took the opposite view, praising the serum highly.

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Dispensing by Medical Men in Holland.

Sir,—In reference to your assertion, on page 730 of The Chemist and Druggist, I have the honour to inform you that in Holland dispensing by medical men is only legal in places where no pharmacy is existing. Consequently the dispensing by medical men is legally limited to villages or very small towns without an existing pharmacy.

Yours sincerely,

The Hague, November 27. J. E. de Vry.

The Farinas of Cologne.

Sir,—I have studied with great interest your well-written article on "Perfumes, and how to make them," contained in the Diary for 1895 just to hand. Will you allow me to correct a misunderstanding which appears to be rather general in England? You speak of the fifty Farinas (page 400) of Cologne. Now, there are, at the present day, all told, exactly fifteen firms of Farina duly registered at the Cologne Chamber of Commerce, and of these there are not more than six, perhaps seven, firms that are manufacturers of eau de Cologne to any extent, using a fairly decent number of gallons sp. v. per annum, as can be easily ascertained on referring to our Excise Office. Perhaps it would be of general interest to the trade to know these facts. As a constant reader and regular advertiser for several years, through my agents, Messrs. Hockin, Wilson & Co., I beg to offer this information without mentioning names. Yours truly,

Gegenüber dem Friesenplatz, Johann Maria Farina.
Cologne, November 26.

The Letter "℞" in Prescriptions.

Sir,—In your report of Mr. Tickle's interesting paper on "Chemical Signs and Symbols," published in your issue of November 3, I notice that in referring to the origin of the letter "℞" used at the head of a prescription Mr. Tickle abandons the old invocation to Jupiter idea and prefers to consider the symbol as an abbreviation for *recipe*, "take thou." Apart from any question of its superstitious origin—which to my mind was satisfactorily settled in a letter to The Chemist and Druggist by Dr. Otto Wall about two years ago—it seems to me that the derivation from "recipe" is open to considerable objection. The sign is one of great antiquity, and the old prescription-writers were better Latin scholars then their *confrères* of to-day, and would hardly be likely to fall into the error of using the word "recipe" to indicate the words "take thou." A reference to any Latin dictionary will show that the verb *recipio* is never in classical works used in that sense, but always in the sense of taking or receiving from the hands of someone else, which is quite a different meaning from that of taking in the sense of taking and using. The Latin verb for the latter is *capio*, and this, apart from Latin writers, is supported by the fact that the directions in a prescription always read *capiat cochleare*, &c., and never *recipiat cochleare*, &c., when a patient is directed to dose himself. Occasionally we find the words *habeat cochl.*, &c., indicating the physician's directions to someone else to administer the medicine. The true meaning of the word "recipe" is well shown in the words *recipe ferrum*, which the Roman populace were in the habit of using at their gladiatorial shows to indicate that the vanquished man was to *receive* his death-blow and not to be spared by the victor. Yours faithfully,

New York. E. H. Gane.

P.S.—The earliest reference I can find in which the verb *recipio* is used in the sense of taking and using is in the "Compositiones Medicamentorum" of a physician named Scribonius Largus, who flourished about 50 A.D. The sign "℞" is, however, much older than that.

The Feeders of Pharmacy.

Sir,—I am afraid I did not make myself sufficiently intelligible to you.

My contention is that your deductions are valueless because you seek to establish facts upon such misleading data as the proportion of candidates to the population of the town in which they sit for examination. Take, if you will, the 124 candidates which you give as the annual average for Manchester. I say you cannot tell how many of these belong to Manchester *per se*, and how many to the smaller towns, which, as I said, have populations similar to Carmarthen, Exeter and Carlisle. Neither can you, therefore, say what proportion to population the small towns or the larger city contribute.

Most respectfully I say my statement neither proves nor disproves your main point, and I seek to prove nothing.

When, by taking a number of towns of similar size—as West Loughton (11,077) and its surroundings with Carmarthen (10,388) and its surroundings, or Staleybridge (26,783) and its surroundings with Shrewsbury (26,967) and its surroundings—you have shown a similarity of proportion between candidates and population (though this you are unable to do), you will still have to prove there is any value in the figures 2 4 as appended to Manchester.

The same, of course, applies to Sheffield and other districts, but it is sufficient for my purpose to refer to this one.

Your query regarding London drawing candidates from surrounding towns does not affect my contention, although I may say, by the way, that London has not the surrounding towns to draw from as Manchester has—viz., to ten times its own urban population. Yours faithfully,

December 1. Harry Kemp.

Child-drüsen or Schild-drüsen.

Sir,—Child-drüsen should apparently be spelt Schild-drüsen. Black's German Dictionary so gives it. See page 279 (ed. 1863), where the meaning is rendered "scutiformed glandule." T. B. G. (188/9.)

Poole.

Kappa, Manchester (189/47), writes to the same effect.

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

184/7. *A.*—(1) Liq. Pepsin. et Euonymin.—See *C. & D.*, July 22, 1893, page 129. (2) Our opinion of your Rat and Mice Poison is that it is pretty good, but it is a mistake to put in so much anise, or any, as the animals will avoid the poison after a bit:—

Arsenic	½ lb.
Strychnine	½ oz.
Farina	½ lb.
Oil of anise	ʒj.
Lime blue	ʒij.

M.

172/38. *Caledonian.*—It is a usual occurrence for moreeo less bleaching to take place when the acid solution is add

to the cochineal syrup while preparing the B.P.C. Syr. Ferri Phosph. Co. There is no reason why you should not increase the quantity of cochineal if necessary. It varies much in tinctorial power, and so long as you filter the solution it will not interfere with the brilliancy of the syrup. The iron wire should be free from oxide. This will ensure the brilliancy of the syrup as much as anything, and enhance its keeping properties. To filter a syrup which has become turbid, heat it and pass it through a felt filter-bag, wetted with warm water. Sacch. ust would not give the proper colour, and your customers would most likely object to a syrup coloured with it. For large quantities a clean oak cask might be used. The colour might be slightly darkened; but for quantities such as 5 gallons it keeps best in jars.

274/32. *Index.*—The trouble in Lighting Your Windows so as to obtain the light to show through 6-gallon carboys may be due to the reflectors. Three inches in diameter is scarcely large enough. Try a 6-inch one and the incandescent light.

176/1. *Wart-pencil.*—The composition of the Corn and Wart Pencils you mention we do not know, but you should have no difficulty in preparing an efficient pencil by using salicylic acid, 1 part; pipe-clay, or any similar white-coloured inert substance, 2 parts: make into a suitable consistency with gum and water. Perchloride of mercury might be used in place of the acid, but the proportion of inert substance must be at least doubled. The same composition will do for both ends, one being coloured. Anti-catarrh Smelling-salts:—

	Parts
Thymol	1
Camphor	4
Carbolic acid	4
Eucalyptus oil	2
Spirit of wine	4
Strong solution of ammonia	2

M. et solve.

The bottles to be filled with equal parts of bicarbonate of soda and carbonate of ammonia, and saturated with the above mixture.

187/20. *H. R. B.*—Oil of Man.—See DIARY, 1894, list of synonyms.

187/13. *H. O. D.*—B.P. caustic soda is used in photography.

188/12. *Rubinas.*—We cannot think of anything which will prevent the young lady's nose becoming red when she dances, and only then. Sell her a nice little pocket puff-box.

187/65. *Bismuth.*—Surfeit-water is liq. ammon. acet. We are surprised to hear that Kiddermiuster chemists give "a strongly alkaline aromatic water": it is very wrong of them.

187/39. *Chemicus.*—See the rules in the 1895 DIARY.

187/57. *N. S. W.*—The mixture is one which we ourselves have recommended.

187/64. *Compo.*—Composition Essence.—See *C. & D.*, November 26, 1892, page 788.

184/36. *F. H. R.*—We have not heard of the article before, but we put your query to our readers.

184/46. *Hyoscyamus.*—Worm-powders for Children.—Santonin is the most reliable medicine. A grain of it may be given for each three years (above one year) with as much sugar, and ⅓ gr. of calomel with each grain of santonin.

185/53. *Subscriber's* predecessor in business had quite a big thing in a Female Mixture, the customers for which were chiefly married women, who found the mixture suit them well. The "mixture" was liq. ergotæ in ʒj. doses. "Subscriber" wants us to assist him in giving something which will be as effectual, and not a poison. We judge from "Subscriber's" letter that what his customers want is ergot to produce abortion, and this is a matter in which we cannot possibly give assistance. We consider that it is exceedingly unwise for chemists to meddle with this sort of business. "Subscriber" should refer to "Drugs and Diseases" (DIARY, 1893) for information in regard to the treatment of venereal diseases.

185/52. *Miles.*—Dispenserships in the Army.—We strongly advise you not to think of the thing. You must join the Army Service Corps as a private, and not until you became sergeant would you be eligible for a dispensership. The Minor is not necessary. The pay is a little better than soldiers of the Line receive, but not much.

185/34. *Hotspur.*—(1) Harness-polish.—This volume, page 386. Instead of making up to 1,000 with water, use spirit for the purpose. We fear that wax would be unsuitable. (2) It is Coleridge who speaks of the "seventy stinks of Cologne."

185/4. *Ignoramus.*—We have seen liq. Donovani given continuously for years. If the person taking the medicine begins to suffer from headaches, the medicine should be stopped for a time, and a mild purgative given.

151/194 (*W. & Co.*), 187/23 (*Bromo*).—Clear Liquid for Lavender Salts is alcoholic solution of ammonia, to each ounce of which are added ol. lavand. ang. ♏xx., otto rosæ ♏iij., ol. neroli ♏ij. The alcoholic ammonia must be used.

184/13. *Hair-wash.*—See page 763 of the current volume.

16/39. *Antispasmodic.*—We cannot get everything we should like into the DIARY, far less pleasing everybody. And then you must not forget that the DIARY is a present from us to our subscribers. But we do not plead guilty to your charge in regard to Brown Robin. See the 1894 DIARY, page 358. In regard to neuralgia see also page 372, and a letter in last week's issue.

180/49. *Sarsæ Co.*—The reason why the mixture becomes sour is that you have nothing in it to preserve it. You must boil the extracts in water for five minutes, then add 4 oz. of glycerine of borax, and when cold the same of spirit of chloroform. This should keep it.

186/29. *W. T.*—Extractum Carnis.—The process is as follows:—Macerate 1 part of lean meat (chopped) for about twelve hours in 8 parts of cold water. Strain, boil, and again strain, then evaporate the strained liquid to extract-consistency.

186/26. *A. H. H.*—(1) Chlorophyll will colour mineral oil green. It is obtainable as a paste. See our issue for March 10, page 362. (2) Use 1½ oz. of yellow wax, and see that it is wax and not paraffin. We expect that that is the cause of your trouble.

188/18. *G. M.* (Manchester).—Continued use of Sulphonal may cause general symptoms of gastric and intestinal disturbance, such as nausea, vomiting, and diarrhœa, loss of power in the legs, mental disturbance, &c., as well as a rubeolus eruption on the body. These symptoms a regenerally preceded by a smoky or dark appearance of the urine, so that it is important to watch the kidney secretion carefully, and to stop the use of the sulphonal whenever the urine is suspicious-looking.

187/6. *Strychnina.*—Elixir Pepsin, Nat. Form.:—

Pepsin (scale)	128 grs.
Hydrochloric acid	30 minims.
Glycerine	2 oz.
Comp. elixir of taraxacum	1 „
Rectified spirit	3 „
Purified talc	120 grs.
Sugar	4 troy oz.
Water to	16 oz.

Dissolve the pepsin in the glycerine acid and 6 oz. of water, add the rest of the ingredients except the sugar, and in a few hours filter. Dissolve the sugar in the filtrate, and make up to 16 oz.

For the elixir. tarax. co. you may substitute ext. tarax. liq. ʒiij., tr. aurantii ʒiij., tr. cardam. co. ʒij. The following label will suit:—

"Peptonic Elixir," a never-failing remedy for indigestion, heartburn, flatulence, windy spasms, and all the various forms of dyspepsia. This mixture is composed of the best-known liver-stimulants, and is highly recommended to all sufferers from any of the above symptoms, which may generally be traced to an inactive liver. If you feel "run down" or "seedy" from overwork or worry, a few doses will speedily bring back your vigour, and brace you to boldly face the difficulty. Agreeable to the palate. Dose.—One tablespoonful in half a wineglassful of water, immediately before food.

183/73. *Standard.*—Horse-powders.—The following formula represents the approximate composition of the sample which you send us:—

Sulphur. vivi	ʒiv.
Potass. nitrat.	ʒiss.
Pulv. gentian.	ʒiss.
„ fenugræc.	ʒj.
„ zingib.	ʒj.

M.

This quantity (or a tablespoonful) for a dose.

184/29. *Mizpah.*—(1) The powder which you send is perfumed with Artificial Musk, made by acting upon oil of amber with nitric acid. The powder itself is chiefly dried carbonate of soda. (2) The Iron-polish is graphite, made into a paste with glycerine, spirit, and water, and perfumed with oil of star anise.

186/35. *Jacobus* sends a powder labelled as follows:—

HARMLESS
HEAD-ACHE POWDERS.

Place one of the Powders Dry on the tongue, and wash down with a little water or milk.

Repeat in two hours if necessary.

These Powders contain Caffeine, the active principle of Coffee, and can be recommended with the greatest confidence.

We find the powder to consist of the following:—

Acetanilidi	gr. vj.
Caffeinæ cit.	gr. ij.
Carmin...	q.s.

M.

The powder has a faint pink colour.

189/12. *P. D. P.*—There is no book published in England on the cultivation of medicinal herbs.

189/11. *W. M. H.*—We have no idea of the composition of the article. No analysis of it has been published, and we have not examined it.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

94/93. Makers of mercurial candles.

194/51. Makers of machinery for pressing unground drugs into square parcels in the American style.

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Dogs' Ears.—Dip the tip of the dog's ears in melted hard paraffin. When cold press in as much small shot as required, gradually increasing the amount.

Lee Green, S.E. Frost & Harrison.

In reply to above, all that is required are two small flat pieces of lead and two larger pieces of porous plaster—the lead to be put on the inside of the ear at the bottom, and fixed into position with the plaster. The position of the ear must be regulated by the weight of the lead. This causes no inconvenience to the dog.

Derby, December 3. T. L. Machon.

A very good tip I had from an old fancier was to cut a piece—the shape of a dog's ear—of porous plaster, and in the centre fix a small flat piece of lead, which can be cut out of old gas-piping, and then warm it and place on the dog's ear. This, if done neatly, does not show at all, and is most effective for young dogs' ears which are likely to stick up. They should be kept on for at least a month.

Bristol, December 4. Frank Y. Durant.

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Monday, December 10.

Imperial Institute. "China, and the Causes of its Present Disasters," by Professor R. K. Douglas. At 8.30 P.M.

Society of Arts, John Street, Adelphi, W.C. Professor Vivian B. Lewes on "Smokeless Gunpowders." At 8 P.M.

Wednesday, December 12.

Manchester Pharmaceutical Association. "A Pharmaceutical Want List: an address on trade topics," by Mr. John Taylor. At 7.30 P.M.

Sheffield Pharmaceutical and Chemical Society. "Pharmaceutical Politics."

Brighton Junior Association of Pharmacy. Mr. Cripps on "Bacteriological Examination of Water."

Edinburgh Chemists' Assistants' and Apprentices' Association. "Notes and Queries" Meeting, conducted by Mr. Wm. Duncan. (1) "Note on Carbolic Acid," by George Coull, B.Sc.; (2) "Novel Impurity in Chloral," by Alex. Gunn, London; (3) "A Seidlitz Powder," by Alexander Gunn, London; (4) "Incompatibility of Codeia Sulphate and Hydrobromic Acid," by William Duncan.

Society of Arts, John Street, Adelphi, W.C. "Manufacture of Salt," by Mr. Thomas Ward. At 8 P.M.

Pharmaceutical Society, 17 Bloomsbury Square, W.C. Evening meeting at 8 P.M.

Thursday, December 13.

Imperial Institute. "Some Aspects of British Forestry," by Mr. William Somerville. At 4.30 P.M.

Chemists' Assistants' Association, 103 Great Russell Street, W.C. Mr. H. A. D. Jowett on "The Future of Pharmacy." At 8.30 P.M.

Midland Pharmaceutical Association. Social Meeting (with talk on trade topics) at the Midland House, Birmingham. At 8.30 P.M.

Liverpool Pharmaceutical Students' Association, University College. Mr. Billington on "Queensland and the Bush Pharmacy," and Mr. H. B. Morgan on "Italian Pharmacy."

Liverpool Chemists' Association, Royal Institution, Colquitt Street. Professor R. J. Harvey Gibson, M.A., F.L.S., on "Distribution of Plant Life," with lantern illustrations. (Ladies are invited.)

SEASONABLE AND SALEABLE.

HAYWARD'S SHEEP DIPS.

THE HAYWARD'S YELLOW PASTE is the most improved form of Sulphur Sheep Dip. Is well advertised. Gives both seller and user satisfaction. 1/- Tins sufficient for 20 to 25 Sheep. Mixes with Cold Water. Liberal Terms. No Cutting.

"EUREKA" WEED KILLER. Mixes 1 to 50. Safest and Most Effective. Selling Freely.

OUR OTHER LINES.—Maggot Fly Powder; Cattle, &c., Washes; Foot Rot Paste; Cattle Oils, &c., &c.

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It takes nearly 30,000 of the little fine grains constituting **VINOLIA POWDER** *to cover an area of one square inch. There is no Dusting Powder we know of which can compare with it in fineness. It feels silken between the fingers, and differs from some of the largely advertised Toilet Powders in that when it is mixed with water it is soluble, and does not drink up a large quantity of water and form itself into a cake-like mass like Plaster of Paris.*

In White, Pink, and Cream Tints. 1/-, 1/9, 3/6, and 6/- per box.

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BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	97·20
Mono Carbonate of Soda	1·90
Sulphate of Soda	trace
Chloride of Sodium	·035
Moisture	·82
Insoluble	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers, Bleachers, Dyers; Glass, Paper, and Soap Makers.

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By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda

SODA CRYSTALS

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Also BLEACHING POWDER.

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Manufacturers of Soda by the Ammonia Process,

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LARGEST SALE IN THE WORLD.

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LIST OF FORMULÆ AND SAMPLES FREE.

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TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

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FULLERS' EARTH MINING CO.,

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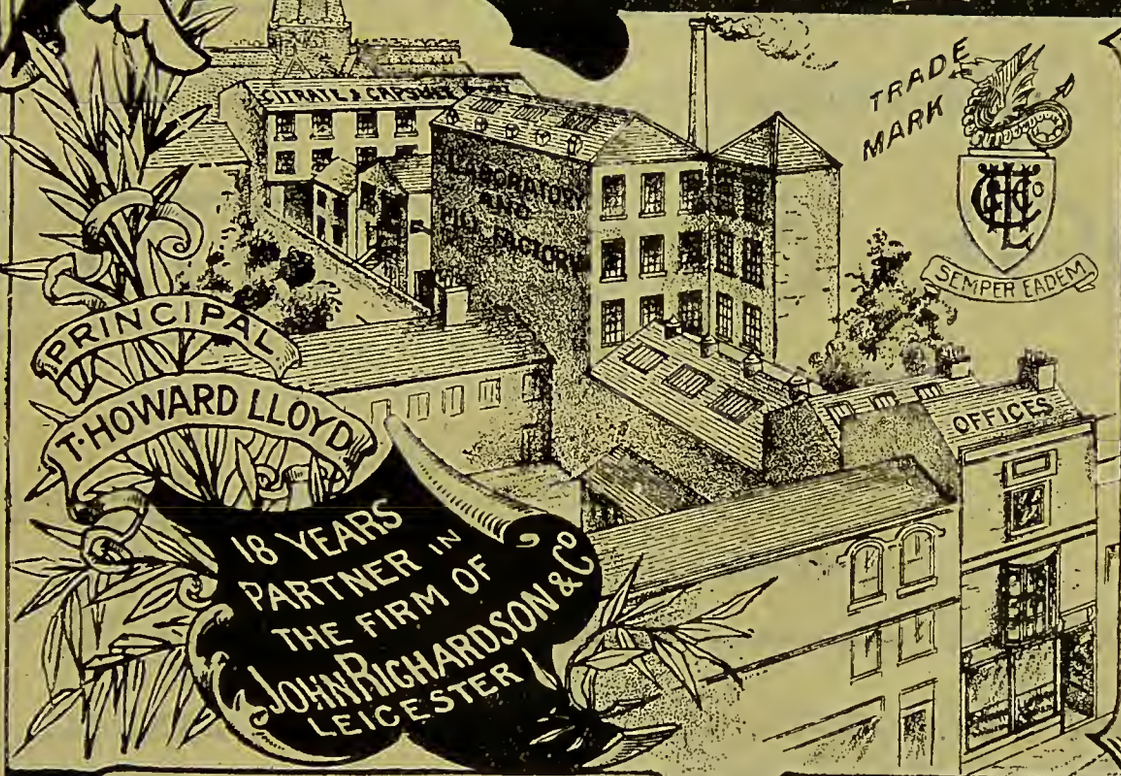

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Concentrated Infusions.
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MANUFACTURING PHARMACEUTICAL CHEMISTS,

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In bottles containing 2 fluid oz. ... ... per doz. **30/-**

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Regular size bottles (5 fluid oz.), in boxes, with dropper .. per doz. **26/-**
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PREPARED FROM PURE AND METHYLATED SPIRIT.

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Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in stoppered bottles, securely luted, and in hermetically sealed flasks when required.

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In fine Pink or Grey Powder. Also 10%.

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COOPERS'

CONCENTRATED

LIQUOR QUINIÆ et STRYCHNIÆ PHOSPH.

PRO SYRUP. EASTONI.

Price 12/- per lb.

TRY IT.

Each Fluid drachm contains six grains of Phosphate of Quinia and quarter grain of Strychnia.

One volume added to seven volumes of Syrup. Ferri Phosph., B.P., forms Easton's Syrup (B.P.C.).

One volume added to seven volumes of Syrupus, B.P., forms Syrup. Quiniæ et Strychniæ Phosph.

TRY IT.

This Liquor recently introduced by us has given great satisfaction wherever used. It will keep ABSOLUTELY UNALTERED in ANY CLIMATE, and is an acknowledged boon to both the home and colonial Pharmacist.

We, with confidence, strongly recommend this unique preparation. When mixed with an equal volume of our Liquor Ferri Phosph. forms Liquor Eastoni, 1-3, of an elegance for which we are so justly noted.

FOR COMING SEASON STOCK OUR

Liquor Tolutanus	1 to 7	3/-	per lb.
Liquor Papaveris	1 to 7	3/-	„
Liquor Sennæ	1 to 7	3/-	„
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Liquor Rhamni	1 to 7	3/-	„
Liquor Rhœados	1 to 7	3/-	„
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Packed in 4-oz., 8-oz., and 16-oz. (fluid) Bottles.

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CHEMICAL FOOD, MERCURIALS.

ETHERS, PYROXYLINS, COLLODIONS.

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MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL;

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA.**

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all

Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and **Blaud's Pill Capsules,** equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

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Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In ½ lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

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Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz., ½ lb., and 1 lb. bottles.

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A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, *Bark minus the woody fibre*, and its efficiency has been proved by careful medical inquiry. Dose: Ten to sixty drops.

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Fluid Pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is *guaranteed* to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the fœtid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 2s. 6d. each; and larger sizes, for dispensing, at a cheaper rate.

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Each drachm contains in a concentrated form, besides the fluid Pepsine a full dose of Schacht's Liquor Bismuthi. Dose: One drachm. In ½ lb. and 1 lb. bottles.
N.B.—Pepsi. Liq. c. Bismutho Co. contains, in addition, one grain soluble Euonymin in each drachm.

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Each drachm contains one grain of soluble Euonymin. Dose One drachm. For dispensing, ½ lb. and 1 lb. bottles.

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A perfect solution of Podophyllin, containing ¼ grain in each drachm.

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A pleasant and active form of Cascara Sagrada. Dose: One to three teaspoonfuls diluted. In 4 oz., ½ lb., and 1 lb. bottles.

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An entirely new Essence, perfectly reliable, for the coagulation of Milk and the production of Junkets and Curds and Whey. It is a preparation of the most wholesome nature, that *contains no salt*, and has no special taste, smell, or colour. In large bottles at 1s. of any Chemists. This Essence keeps well in any climate.

The above Preparations can be procured from Messrs. Barclay & Sons, W. Edwards & Son, and the Wholesale Druggists; or direct by post from

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HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity, by

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LIQUOR CARNIS CO.

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LIQUOR CARNIS (CAFFYN)	Raw beef juice..	2/- & 3/6
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LIQUOR CARNIS SUPPOSITORIES ...	Raw beef juice suppositories	2/6

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Antitoxine

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an Antipyretic, Antineuralgic, and Antirheumatic which, while powerful in action, is perfectly safe in every case. We wil be pleased to send Samples to all who apply for them.

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(Registered.)

Aseptic and Antiseptic Ointment and Emollient.

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Is a preservative and remedy when applied to parts where decomposition of skin secretions is apt to occur, and prevents irritation.

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IN METAL TUBES, 7½d., 1/1½ AND 2/3.

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GUARANTEED ABSOLUTELY PURE.

NO OIL EXTRACTED, NO BUFFAM ADDED.

£14 per ton ; **15/-** per cwt., carriage paid.

SIZER BROS., Seed Crushers, Tower Oil Mills, HULL.

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M. PETERSON & CO.

(ESTABLISHED 1870),

75 ST. ANNE STREET, LIVERPOOL..

FOR HOME, FOREIGN & COLONIAL MARKETS.

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CURRENT PRICES { 1/1½ size, **9/6** per dozen. 2/9 ,, **28/6** ,,

Terms Cash, less 2½% for 1 Gross lots, and 5% for 5 Gross and upwards. No less quantity than 3 doz. supplied. When Cheque accompanies the Order, Carriage will be Paid.

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OWBRIDGE'S LUNG TONIC *does not contain any Scheduled Poison*, therefore ALL persons holding Patent Medicine Licences can sell it, and no one has a right to attach "Poison" labels to the bottles.

This Notice and Caution have been rendered necessary by the recent action of the Pharmaceutical Society in reference to Patent Medicines.

The known superiority of Owbridge's Lung Tonic as a *safe* and effective remedy for Coughs, Colds, or any affection of the Lungs, makes it important the Public should know that no difficulty exists in obtaining it.

Sold everywhere at 1s. 1½d., 2s. 9d., 4s. 6d., and 11s. by all Chemists and Patent Medicine Vendors.

BEECHAM'S PILLS

FOR ALL BILIOUS & NERVOUS DISORDERS, INDIGESTION, & FEMALE COMPLAINTS.

The demand is unprecedented, and Druggists will find BEECHAM'S PILLS the most Saleable Patent Medicine in the Market.

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As a Remedy for Coughs in general, Asthma, Bronchial Affections, &c., these Pills stand unrivalled.

In Boxes, 9½d., 1s. 1½d., and 2s. 9d. each.

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All Chemists, Druggists and Stores should stock this new article, which is well advertised, and is a really good speciality. It is put up in collapsible tubes, Retail Price, 1s., and can be obtained from any Wholesale House.

46

WATSON & WATES' HOMŒOPATHIC MEDICINES

Commend themselves for their

READY SALE & UNIVERSAL POPULARITY.

SUITABLE SELECTIONS INSURING QUICK RETURNS.

The Leading House for Novelties and Originalities in way of Cabinet Work.

The FIRST to introduce the Vertical "Acme," "Duplex" (or Pay Case), "Pedestal," and "Unique" Cases, absolutely their OWN DESIGNS, the superiority of which is marked by the imitation of other houses.

above insure the Best Possible Display in little space. Constructed to any position perfectly FREE OF COST. SEE WHAT CHEMISTS SAY.

93 LEADENHALL STREET, LONDON, E.C.

TRY IT! WHAT?

WILEY'S CHEMICAL ESSENCE

FOR

LAMENESS IN HORSES.

If you will, you can sell it, and it will bring you credit. You can have attractive Handbills free.

Sole Maker—**F. E. ROOKLEDGE, EASINGWOLD.**

ORDER FROM YOUR WHOLESALE HOUSE.

AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.
Extract from Analytical Report of Dr. S. Rideal, F.C.S., F.I.C., F.G.S., May 21st, 1892.
"Practically tasteless and free from smell, contained no fat or resin, * * * carefully manufactured."

SNOWDON, SONS & CO., MILLWALL, LONDON, E.

'BEETA BEETA' EXTRACT EUCALYPTI

ALSO PREPARED FROM SAME,

LOZENGES, PASTILLES, SOAP, HONEY, COD-LIVER OIL EMULSION, OINTMENT, SALVE, &c., &c.

Guaranteed the pure essence of the leaf of the Australian Eucalyptus Globulus.

SAMPLES MAY BE HAD ON APPLICATION TO THE

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MASSEY & CO., SOLE MANUFACTURERS, YOUNG AND SYDNEY, N.S.W.

OIL OF
EUCALYPTUS
GLOBULUS
"PLATYPUS BRAND"

HELBING'S ANALYSIS.—Specific Gravity, 0·9175 at 15° C. Contains 44·9 per cent. Crystallisable Eucalyptol. Free from Phellandrene, and from irritating constituents. "Especially suited for prescription by physicians."

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In TASTE, AROMA, & THERAPEUTIC VALUE

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30-lb. TINS. CASES OF 4 TINS. (Contracts at Special Prices.)

TO BE OBTAINED OF ALL WHOLESALE DRUGGISTS.

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25-LB. TINS. 2 TINS IN CASE.

THE CHEMIST AND DRUGGIST says:—

"The oil is free from low-boiling terpenes, has a specific gravity of 0·9075, and has a delightful odour."

KANGAROO
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Is admitted to be the Purest Eucalyptus Oil yet introduced to the public. To be obtained of your Wholesale Druggist.

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FEVER AND SMALL POX HOSPITALS, CANAL BOATS, &c.

Uniform Quality and Strength Guaranteed.

Edwin Turner, Esq., M.R.C.S.L., L.A.S., Medical Officer of Health, Stourbridge Union Rural Sanitary Authority, writes 13th June, 1894:—

"I consider Odams' Carbolic Powder a very potent and genuine article. I have used it with much satisfaction in Fever and Small Pox Hospitals."

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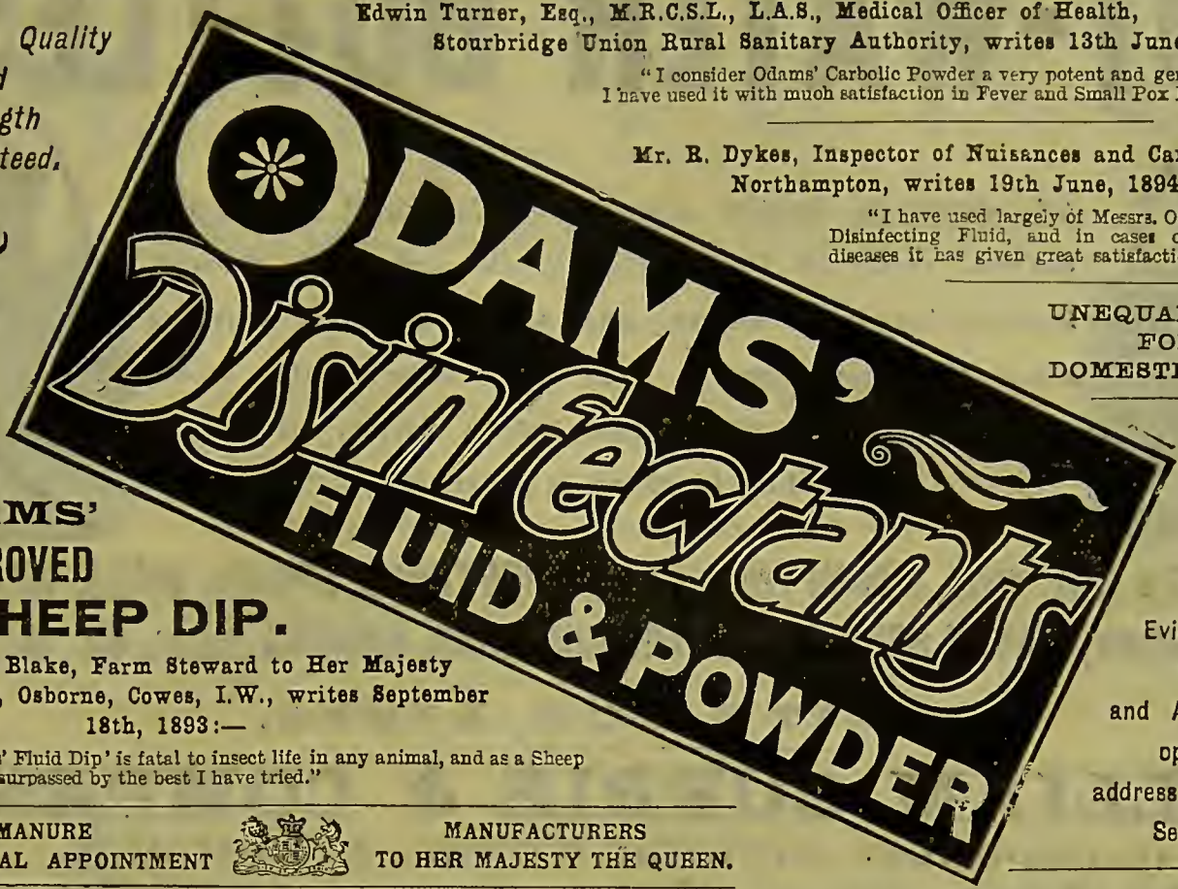
"I have used largely of Messrs. Odams & Co.'s Disinfecting Fluid, and in cases of infectious diseases it has given great satisfaction."

UNEQUALLED FOR DOMESTIC USE.



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Andrew Blake, Farm Steward to Her Majesty the Queen, Osborne, Cowes, I.W., writes September 18th, 1893:—

"'Odams' Fluid Dip' is fatal to insect life in any animal, and as a Sheep Dip it is not surpassed by the best I have tried."

For Evidence of Value and Agencies open, address the Secretary.

MANURE BY SPECIAL APPOINTMENT MANUFACTURERS TO HER MAJESTY THE QUEEN.

ODAMS' MANURE AND CHEMICAL COMPANY, Limited. HEAD OFFICE: 116 Fenchurch Street, LONDON, E.C.

"IZAL" IS THE

NEW NON-POISONOUS DISINFECTANT,

"IZAL"

And is now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets, Printed Matter, And any information the Trade may require, can be obtained on application to

Allen & Hanburys, BETHNAL GREEN, LONDON.

Who are the Sole Bottling Agents for the Manufacturers.

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

CAMPHORTAR

8/- per Gross

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A Powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

MANUFACTURED ONLY BY

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HOT-WATER BOTTLES.

All Chemists should try our "Comfort" Hot-water Bottles, made in Drab, Red, Black and Cloth covered. Retains its heat longer, and affords a more soothing effect than any others. Free from objectionable smell, and, being fitted with Patent Safety Screw, all risk of scalding in filling is prevented.

JACONETS (Pink, Brown, & Double Texture), **BED SHEETINGS, SPONGE BAGS, NURSING APRONS, WATER BEDS AND WATER CUSHIONS, ENEMAS** (Patent), &c., &c.

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CALEDONIAN RUBBER WORKS, EDINBURGH,

And 22 Castle Street, Falcon Square, LONDON, E.C.

DRUGGISTS' SUNDRIES AND PATENT MEDICINES.

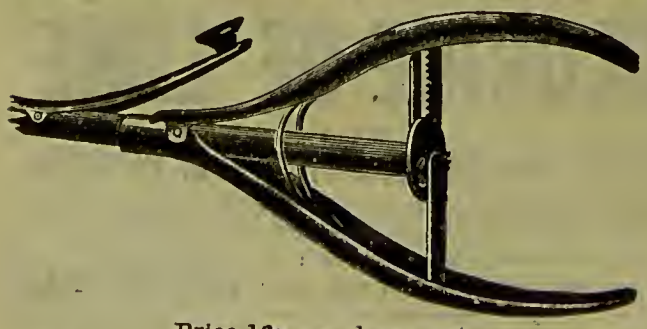
Chemists are invited to apply for our illustrated

CATALOGUE

POST FREE ON APPLICATION.

THE CHEMISTS' ASSOCIATION, LTD., CURTAIN ROAD, E.C.

THE AUTOMATIC REVOLVING HAIR CURLING IRON.



Price 16s. per dozen net.

Press the Handles and the Rod Curls your Hair.

THE LATEST THING IN HAIR CURLERS.

You do not have to turn the Iron (as is the case with all others), but simply press the Handles, and the Rod turns and curls the hair.

The Curler operates so quickly one heating is sufficient to curl the hair. It's done in a minute.

BARCLAY & SONS (Ltd.), 95 Farringdon Street, LONDON, E.C.

52

PLASTERS:

INDIA-RUBBER POROUS.

We have great pleasure in calling attention to the above Plasters in India-rubber combination. The quality is guaranteed, and in appearance they are quite equal to anything offering at present on the market; and we feel sure from the popularity that India-rubber Plasters have attained, and the reasonable price at which we offer them, our friends will be enabled to effect good sales. They are put up in fancy boxes, containing two dozen, and each Plaster is put in a separate envelope, which is not closed at one end, so that at pleasure the Plaster can either be sent out with simply the muslin facings on it (no name being on the Plaster itself) or with the printed envelope. The size of the Plaster is 7½ by 5 inches.

PRICE

2/- PER DOZEN,

In Fancy Boxes containing two dozen.

BELLADONNA, CAPSICUM, STRENGTHENING.

We strongly recommend our customers to buy in one gross lots (which may be assorted), as we print name and address and any other matter on the wrapper and linen of each plaster free of charge, thus bringing name and specialities directly under the notice of purchasers.

EVANS, SONS & CO.,

LIVERPOOL.

LONDON:
EVANS, LESCHER & WEBB.

CANADA:
EVANS AND SONS (Lim.).

SHOP BOTTLES & JARS

WITH VITRIFIED (burnt in) LABELS

(Black Letters on a ground of Pink or White Enamel).

Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

H. POTHS & CO., 4 CREECHURCH LANE, LEADENHALL STREET, E.C.

SEE OUR ADVERTISEMENT ON PAGE 5 (bottom folio) OF ISSUE OF MAY 13, 1893.

The most complete and central Showroom of all classes of

BOTTLES

WILL BE FOUND AT

BOTOLPH HOUSE, 10 EASTCHEAP, E.C.

Inspection and Correspondence invited by

JOHNSEN & JÖRGENSEN.

GLASS BOTTLES

OF EVERY DESCRIPTION.

Revised Price List on Application.

FEEDING BOTTLES AT LOW RATES.

Write for Prices of any kind of Bottle required to

E. YOULDON,

East London Glass Bottle Warehouse,

36. 38. & 40 GREAT GARDEN STREET, WHITECHAPEL, LONDON, E.

PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of

GLASS BOTTLES OR FANCY GOODS.

SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.

LOOSE OR HINGED LID BOXES OR TUBES.

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1*s.* 3*d.*, post free.

Special set of 6 for Fancy Goods { Plain, 1*s.* 3*d.*, post free. Fancy, 2*s.* 6*d.* ,,

Quotations for quantities, Plain or Printed, per return post.

ORDERS PROMPTLY EXECUTED.

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SPECIAL NOTICE TO THE TRADE

THE NORTH LONDON GLASS BOTTLE COMPANY
(I. ISAACS & CO., Proprietors)

Beg to state that they have removed to more extensive premises at the Midland Railway Goods Depôt, St. Pancras. Office and Warehouse, 106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W., where please address to us for the future. We beg to call attention to the superior quality of the Bottles we are now making, and which we supply at the following low prices:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, or the ordinary kind, plain or graduated—

3 and 4 ounce	8 0	per gross.
6 „ 8 „	9 0	„
10 „ 12 „	12 0	„
16 „	16 0	„

Oval, Octagon, or direct Square shape the same price.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

Established upwards of 50 years at 25 Francis Street, Tottenham Court Road, London.

"LA SPECIALITE" SERIES

FEEDING BOTTLES

IN ATTRACTIVELY LABELLED

FOLDING CARD BOXES

(BOTTLES & BOXES WITHOUT MANUFACTURERS' NAME).

SCREW GLASS STOPPERS, BLACK SEAMLESS TEATS.

With 7½ Best Quality Black Rubber Tubes.

No. 65.—White Glass Bottle, White Glazed Earthenware Unions, no Brushes... ...	39/-	PER GROSS NET, LONDON.
„ 66.—Green „ „ „ „ „	37/-	
„ 67.—White „ WHITE Glass Unions, no Brushes	40/-	
„ 68.—Green „ „ „ „	38/-	

IF WITH TWO BRUSHES 4/- PER GROSS EXTRA.

HAND-MADE SHOP-ROUNDS.

WHITE FLINT GLASS.

Sizes	4-oz.	6-oz.	10-oz.	16-oz.	20-oz.	32-oz.	40-oz.	
Plain	1/3	1/7	2/-	2/6	3/-	3/8	4/6	PER DOZ. NET, LONDON.
Narrow Stoppered ...	2/-	2/5	3/6	4/-	4/9	5/3	6/-	
Wide Stoppered	2/3	3/-	3/10	4/9	5/3	6/-	6/9	

ALL OTHER SIZES AT EQUALLY FAVOURABLE PRICES.

WHITE FLINT GLASS LIMES.

Sizes ...	1	1½	2	3	4	5	6	8	10	20 oz.	
Prices ...	3/6	4/-	4/9	5/9	6/6	7/6	7/6	9/-	12/6	21/-	PER GROSS NET, LONDON.

AMBER MALT EXTRACT BOTTLES (Wide Mouth).

Fluid Capacity ...	6½ oz.	10 oz.	12 oz.	
	11/6	15/6	17/6	PER GROSS NET, LONDON.

SEND FOR OUR PRICE LIST, ILLUSTRATED.

BREFFIT'S Ltd.,

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Chemist and Druggist Bottle and Glassware Manufacturers.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,
12 PALL MALL EAST, LONDON, S.W.,
SOLE AGENTS FOR

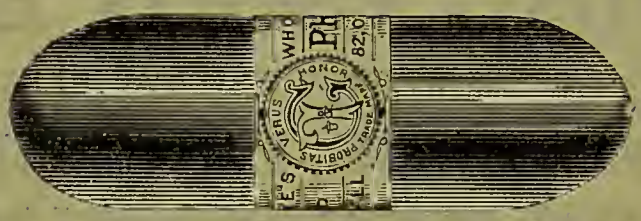
DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each. Half Tubes, 1s. each. Pomade in Vials, 5s.

HUMAN VACCINE (from healthy children only, microscopically examined and source quoted).—Tubes two-thirds full, 1*s.* 8*d.* each. Tubes one-third full, 1*s.* each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin Points (uncharged), 1*s.* per dozen. Vaccine Ejectors, 1*s.* 3*d.* each, including postage.

Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to EDWARD DARKE, Secretary.

WALKER, TROKE & CO.
WHOLESALE DRUGGISTS,
65 Bath Street, City Road,
LONDON, E.C.



SOLE MAKERS OF
GABRIEL & TROKE'S
GELATINE CAPSULED
HORSE BALLS.
Alterative, Condition, Cordial Cough, Diuretic, Fever, Physic, Worm, Quinine Tonic Balls (Registered 81,291).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

PAYS TO SELL IT.

AGENTS WANTED.

ROSEBRITE POLISHING SOAP.
MADE IN ENGLAND. *SAMPLES FREE.*

Thoroughly cleans and brilliantly polishes Gold, Silver, Electro-ware, Nickel, Brass, Copper, Tin, Pewter, &c., Mirrors and Windows. Removes stains from hardwood, &c.

GUARANTEED TO CONTAIN NO GRIT OR ACID.

Sold in 1d. & 2d. Tablets.

Extract, October 29, 1894:—"Order herewith. Your Rosebrite is the finest Plate Polish on the market. My customers will now have no other."

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GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

JOHN OAKEY & SONS, LIMITED,
MANUFACTURERS OF
Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

OAKEY'S WELLINGTON KNIFE POLISH
Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Canisters with perforated Tops to prevent waste, at 1*d.*, 2*d.*, 3*d.*, 6*d.*, 1*s.*, 2*s.* 6*d.*, and 4*s.* each.

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For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6*d.* each.

OAKEY'S "POLYBRILLIANT" (REGISTERED).
A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste. Tins, 1*d.*, 2*d.*, 3*d.*, and 6*d.* each.

WELLINGTON BLOCK BLACK LEAD,
In 1*d.*, 2*d.*, and 4*d.* Blocks, and 1*s.* Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.
Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1888. Gold Medal, Crystal Palace, 1884.
56

THE

INCANDESCENT GAS LIGHT

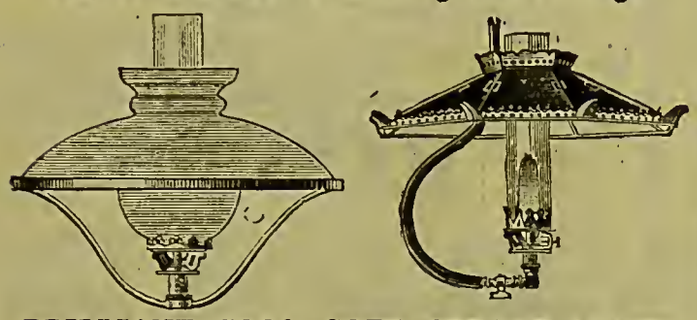
(WELSBACH SYSTEM).

TREBLE THE LIGHT WITH HALF THE GAS OF ORDINARY GAS BURNERS.

SUPERIOR TO ELECTRIC LIGHT

At One-eighth the Cost.

Can be attached to Existing Gas Fittings.



BRILLIANT, COOL, SOFT, STEADY LIGHT.

THE LIGHT for HOME or BUSINESS.

Full particulars Post Free on application to the

Incandescent Gas Light Co., Ld.

PALMER ST., WESTMINSTER, LONDON.

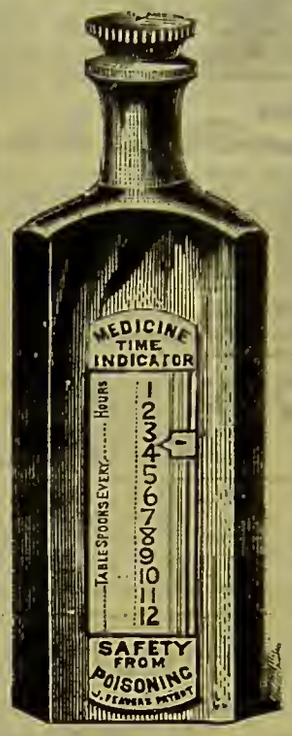
BRANCHES AND AGENCIES THROUGHOUT THE KINGDOM.

A GOOD LINE FOR THE TRADE.

MEDICINE TIME INDICATOR

And POISON PREVENTIVE.

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations **not** intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.



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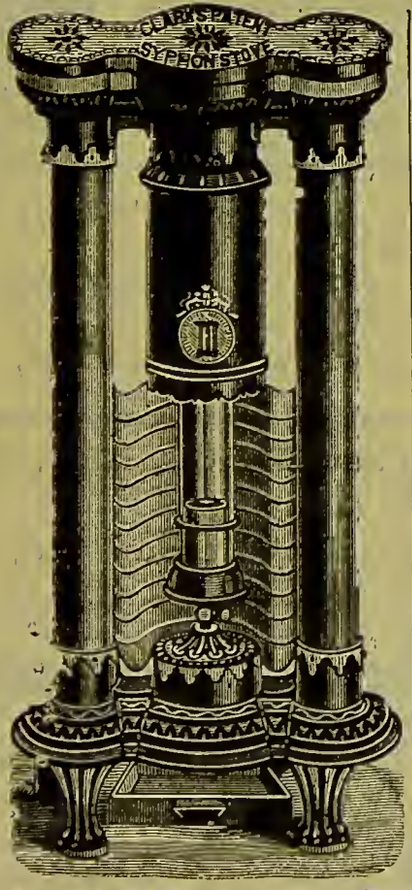
J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.

TO CHEMISTS AND DRUGGISTS.



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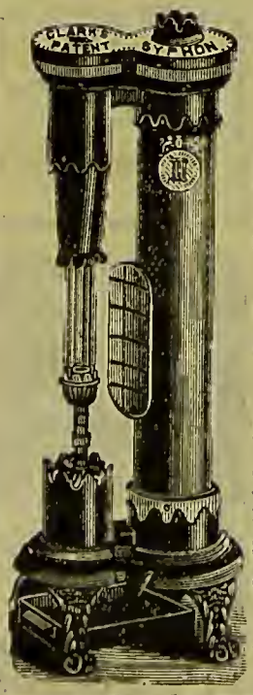
"THE SYPHON" (Registered Title)

HYGIENIC CONDENSING GAS HEATING-STOVES

(CLARK'S PATENT).



A Necessary for all Invalids.
A Comfort to Everybody.

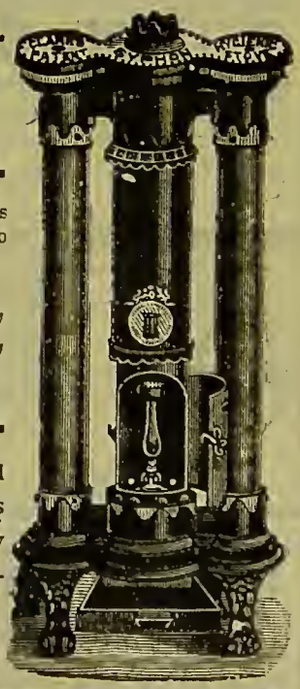
NO FLUE REQUIRED.
FREE FROM SMELL OR SMOKE.

All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.

A LIBERAL DISCOUNT ALLOWED.

The "Syphon" Stove is admirably adapted for heating Chemists' and Druggists Shops and Stores. The heat is evenly diffused, and can be graduated or sustained at pleasure.



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S. CLARK & CO., Patentees & Makers, **SYPHON WORKS, PARK ST., ISLINGTON, LONDON, N.**

Telegraphic Address -" YPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London, E.C.

STONE JARS AND BOTTLES
OF ALL DESCRIPTIONS
FOR DRUGS, EXTRACTS, CORDIALS, ESSENCES, &c.
Stone Bottles for Ginger Beer, Furniture Polish, Blacking, &c.
PRICE, SONS & COMPY.
OLD STONE WARE POTTERIES, BRISTOL.

THE "MORSTADT" **Cachets**
Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18½ grains Quinine or Salicylic Acid.
MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.
SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.
THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

CINCHONA BARK AND CRUDE DRUGS.
SPECIALITIES OF
FREDK. GRAF, DRUG MERCHANT, 65 Fenchurch St., LONDON, E.C.
PRICES AND SAMPLES ON APPLICATION.

HUGO LORENZ, 7, 8 Idol Lane, LONDON, E.C.
CHEAPEST HOUSE FOR THE FOLLOWING:—

Pot. Bromide	Sugar of Milk
Do. Iodide	Acid Boracic
Do. Permanganate	Iodoform

S.V.R. in 40-gallon drums, pure tinned.

JUNE'S HEALTH BATH SALT.
A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.
GOOD PROFIT GUARANTEED.
WRITE FOR SAMPLES & TERMS,
LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

JOPE'S COMBINATION
FOR LADIES.
Patent applied for. Combined Belt and Soft Turkish Towels.
"Article that Chemists may profitably handle."—(See *Chemist and Druggist*, October 6.)
For particulars apply to your Warehouse or to the Manufacturer,
V. M. JOPE, 120 Queen Victoria St., London, E.C.

E. H. THIELLAY'S (Registered 1867)
EUCALYPTIA.
From "Eucalyptus Globulus." An authentic regenerator of the hair, instantly stopping its falling off, and is invaluable for hairdressing; a safeguard in epidemic times, protectingly surrounding the respiratory unctions from malarious and vitiated emanations. In Bottles at 2/6, 3/6, 4/6, 7/-, 10/-, &c.
All Wholesale Houses, or direct from
E. H. THIELLAY.
Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.
(SHOW ROOMS AT CHARING CROSS HOTEL.) [2]

FREDK. FINK & CO.
10 & 11 MINCING LANE, LONDON, E.C. [1]
SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

PRECIPITATED CHALK, WHITEST & PUREST.
CHEAPEST SELLERS IN THE MARKET.
ALSO CHEMICALS, DRUGS AND OILS.
APPLY TO
AUG. LEVERMORE & CO., 8, LIME STREET, LONDON, E.C.

IT WILL COST NOTHING
Our Export List mailed free to Drug Buyers abroad.
H. E. STEVENSON & Co., Successors to the Export Business of FLETCHER, FLETCHER & STEVENSON,
130 SOUTHWARK ST., LONDON, S.E.

Invaluable for Cyclists, Footballers, Golfers,
RYPONA
For Rheumatism, Lumbago, Sciatica, Sprains, &c.; also for Cuts, Wounds, Boils, and Skin Affections.
Of all Chemists and Patent Medicine Vendors—
LINIMENT, 1/9; OINTMENT, 7½d.
Wholesale of
J. SANGER & SONS, 2 Winsley Street, Oxford Street, LONDON, W.
Athletes, and anyone liable to a Chill.
See page 46 (bottom folio) of "The Chemist and Druggist," December 1 1894.

NESS & COMPANY, DARLINGTON,
SPECIALISTS IN
SHEEP DIPS (Fluid, Paste, Powder) and DISINFECTANTS.
Highest Award World's Fair, Chicago, and Four Gold Medals.
WRITE FOR PARTICULARS AND SAMPLES.

THORNTON-PICKARD CATALOGUE POST FREE
ARE THE SIMPLEST & BEST. Time & Instantaneous SHUTTERS
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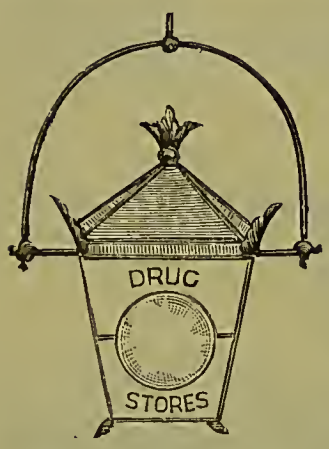

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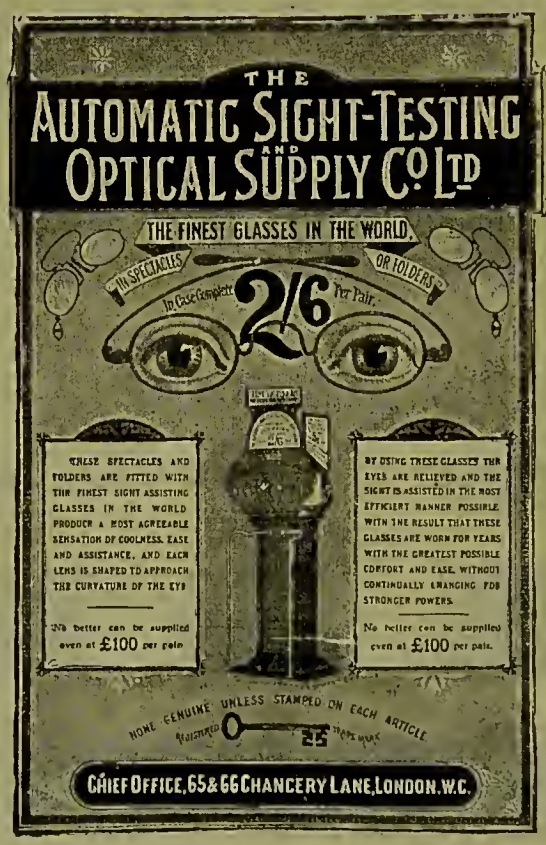

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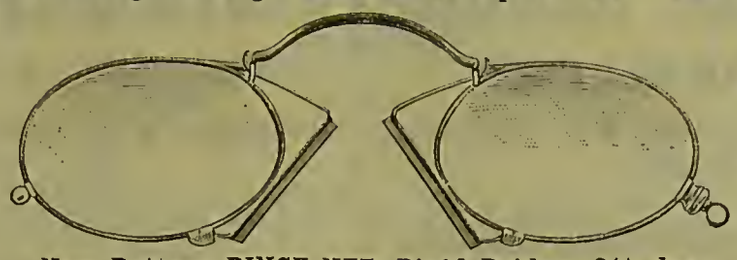

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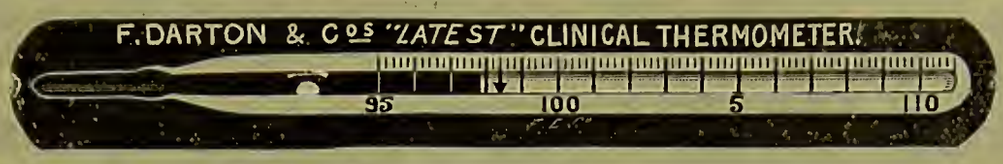

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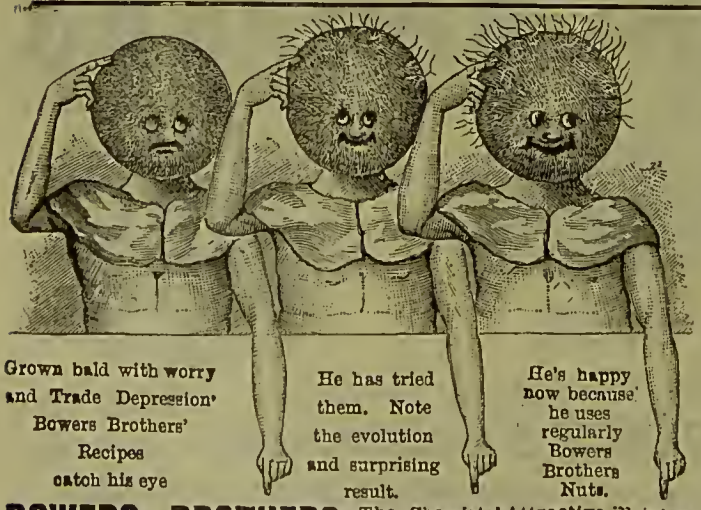

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For sale, three 8-gallon show-carboys, fig. 1 Maw's, 33*s.* Carter, Chemist, Woolwich.

The contents of a Chemist's shop for sale, in one lot, recently fitted with the best mahogany fixtures, mahogany glass cases, dispensing-screen, counter, &c.; 520 gold-labelled bottles, specially selected; best quality drugs, many not been unpacked; a boon to a Chemist commencing. Address, Belcher, Blackfriars, Gloucester.

Immediate Disposal.—Whole of Chemist's stock and fixtures, including dispensing-screen, glass cases, counter, drawers, &c.; in good condition; no reasonable offer refused. Address, "Phenol," 22 Spring Street, Derby.

Miscellaneous.

Two foot-cradles, as fig. 4, Maw's; what offers? 38/32, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Dispensing-scales, as Maw's fig. 7, 15*s.*; specie-jar, Royal arms, "Rhubarb" (height 30 in. without lid), and stand, by Treble, 50*s*; set of forceps, 25*s.*; oil-cistern, about 120 galls., 25*s.*; fixture-bottles, &c.; cheap to clear. Inglis, Chemist, Delph.

WANTED.

Large carboy; large composition mortar. Deacon, Beckenham.

Small mineral-water plant, secondhand. Apply Wilson, Chemist, Enniskillen.

Pair black wood crutches (light) as Maw's; state price. Wise, St. Neots.

Four-pint glass percolator, also tincture-press. Wimshurst, Chemist, Bexhill.

Good chemist's square lamp. Particulars to M'Hugh, Chemist, Castleford, Yorkshire.

Pill-machine to cut 24 pills. 40/2, Office of The Chemist and Druggist, 42 Cannon St, E.C.

Address Wanted.

The present address of C. W. Shepherd, Chemist, late of Ilkley, Yorkshire. 92/55, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Telegrams—"ASTIGMATIC."

J. RAPHAEL & CO.

Holders of the largest stock of Spectacles and Folders in every recognised material.

ODD ORDERS AND PRESCRIPTIONS BY RETURN.

13 OXFORD STREET, LONDON, W.

☛ Correspondence cordially invited, and every information most willingly given to assist Chemists who desire to build up this lucrative adjunct.

SHOP FITTERS, SHOWCASE MAKERS.

NATALI & CO.

40 GRAY'S INN ROAD, HOLBORN, LONDON, W.C.

CHEMISTS' SHOP-FITTINGS, SHOWCASES, and UTENSILS of all descriptions, new and second-hand.

Chemists commencing, opening Branches, or making alterations, can be fitted throughout immediately, and save 25 per cent. by purchasing from our extensive stock.

Old Fittings Purchased or taken in Exchange. — Estimates Free.

NO CONNECTION WITH ANY OTHER FIRM OF THE SAME NAME.

BOOKS FOR THE CHEMIST'S LIBRARY.

"THE ART OF DISPENSING." Price 3*s.* 6*d.* By post, 3*s.* 10*d.*

"HANDY BOOK OF MEDICINE-STAMP DUTY." By E. N. Alpe, of the Solicitor's Department, Somerset House. Price 2*s.* 6*d.* By post, 2*s.* 9*d.*

"VETERINARY COUNTER PRACTICE." Price 3*s.* 6*d.* Post Free, 3*s.* 9*d.*

Published at the Offices of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.; and from all Wholesale Houses.

·JEWSBURY & BROWN·

Have pleasure in submitting the following Report on the Analyses of Aërated Beverages and Mineral Waters manufactured at their New Manufactory, Ardwick Green, Manchester, by

J. CARTER BELL, ESQ., A.R.S.M., F.I.C., &c., &c.,

Analyst for the County of Chester, and for the County Boroughs of Salford and Birkenhead.

The Cliff, Higher Broughton,
Manchester, September 6th, 1894.

I have visited the Works of Messrs. JEWSBURY & BROWN, and have thoroughly investigated the different stages of their Mineral Water Manufacture, commencing with the entrance of the Manchester town's water into the Works, and finishing the examination by analysing all their manufactured products.

It would be tedious to enter into minute detail upon all the analyses which have been made, therefore it will be sufficient to state the principal things concerned in the manufacture.

The most important feature is a plentiful supply of pure water. Not content with the purity of the Manchester water, the firm aim at, and are successful in obtaining a purer water by a process of filtration, by which the organic matter is almost reduced to nil, as the following analysis of the water used in the manufacture of ALL their Aërated Waters will show:—

	Grains per Gallon.
Total Solid Matter at 212° F.	5·3
Mineral Matter at 212° F.	4·1
Loss on Ignition	1·2
Chlorine	·8
Oxygen required for Fifteen Minutes	·005
Oxygen required for Three Hours	·011
Free Ammonia	Nil.
Albuminoid Ammonia	·0007

And to guard against the introduction of lead, which is so often found in the Mineral Waters supplied to the public, all the pipes which convey the waters are specially made of pure tin, so that it is impossible for any lead to find entrance into any of the finished products.

I have analysed all the Waters manufactured by Messrs. JEWSBURY & BROWN, including their Quinine Tonic, Lithia, Potash, and Seltzer Waters, and I find them to be well made, and containing the quantities of ingredients stated on the labels, and all are of unexceptionable purity.

(Signed),

J. CARTER BELL, A R.S.M., F.I.C., &c.,

Analyst for the County of Chester, and for the County Boroughs of Salford, Birkenhead, &c., &c.

THE CHEMISTS' AERATED MINERAL WATERS ASSOCIATION LIMITED. C.A.M.W.A.L.'S

NEW ARTESIAN WELL AT HARROGATE.

Read Dr. ATTFIELD'S ANALYSIS, and judge for yourselves. It will please Members as it does the Directors.

ANALYSIS OF C.A.M.W.A.L.'S WELL-WATER AT HARROGATE.

Dissolved Solids.	Grains per Gallon.
Chloride of Potassium	0·668
Chloride of Sodium	3·513
Sulphate of Sodium	1·260
Carbonate of Sodium	1·016
Carbonate of Calcium	9·188
Carbonate of Magnesium	4·697
Oxides of Aluminium and Iron	0·263
Silica	1·561
Organic Matter	none
Total Dissolved Solids	22·166

ANALYTICAL DATA.—Potassium, 0 350; Sodium, 2·230; Magnesium, 1·342; Calcium, 3·675; Oxides of Aluminium and Iron, 0·263; Silica, 1·561; Sulphuric Radical, 0·852; Chlorine, 2·450; Carbonic Radical, 9·443; Total, 22·166.

June 30th, 1894. (*Signed*) **JOHN ATTFIELD.**

From "The Chemist and Druggist" Special Summer No., July 28, 1894.

"CAMWAL WATERS.

"We have hesitated whether to head this paragraph 'Camwal Waters' or "'Camwal Progress,' for both are the subject of the circular inserted by THE "CHEMISTS' AERATED AND MINERAL WATERS ASSOCIATION (LIMITED). "The Association is the most prosperous co-operative body of Chemists ever "founded in England, and it owes its prosperity to the sound methods on which "its business is conducted. Chemists are not such fools as to join an Association "for the sake of the good dividend merely; they must get satisfaction with the "goods supplied, and that is where the Association has scored."

OL. SANTALI "BUSH."

TRY IT.

OL. SANTALI "BUSH."

BUSH'S

LEMON OIL.

"Speciality."

TRY IT.

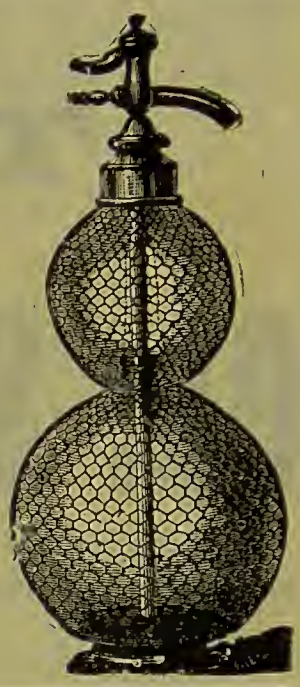
Artillery Lane, LONDON.

SYPHONS | SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

---

ESTABLISHED NEARLY FIFTY YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS

EUGENE GERAUT & CO.'S

LATEST

NEW PATENT SELTZOGENE.

PATENT No. 18,305.

For the immediate Preparation of Seltzer Water, Eau de Vichy, Soda Water Sparkling Lemonade, Aërated Waters, &c.

Finding so many complaints through the screws of Seltzogenes getting worn and Customers not screwing taps on tight enough, E. G. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.

WEAR AND WORKING GUARANTEED. NO MORE SCREWING REQUIRED. TAP CANNOT GET CORRODED.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

SOLE ADDRESS—

139 & 141 Farringdon Rd.,

LONDON, E.C.

Gazogenes and Seltzogenes Repaired.

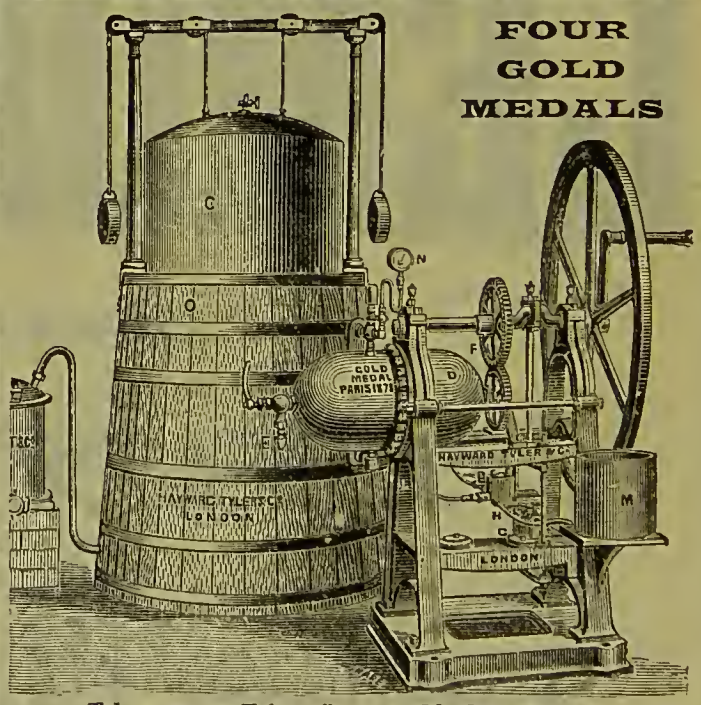
16

HAYWARD TYLER & CO.

AWARDED FOR

AËRATED WATER MACHINERY

FOUR GOLD MEDALS



Telegrams—"Tylerox." *Telephone No.* 192. [3]

90, 92 WHITECROSS STREET, E.C.

DAN RYLANDS, LIMITED,

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.

GLASS BOTTLE DEPARTMENT.

We have had over TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLANDS' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aërated-water trade.

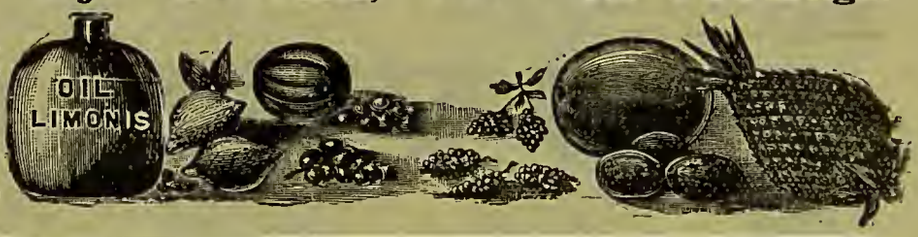
Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

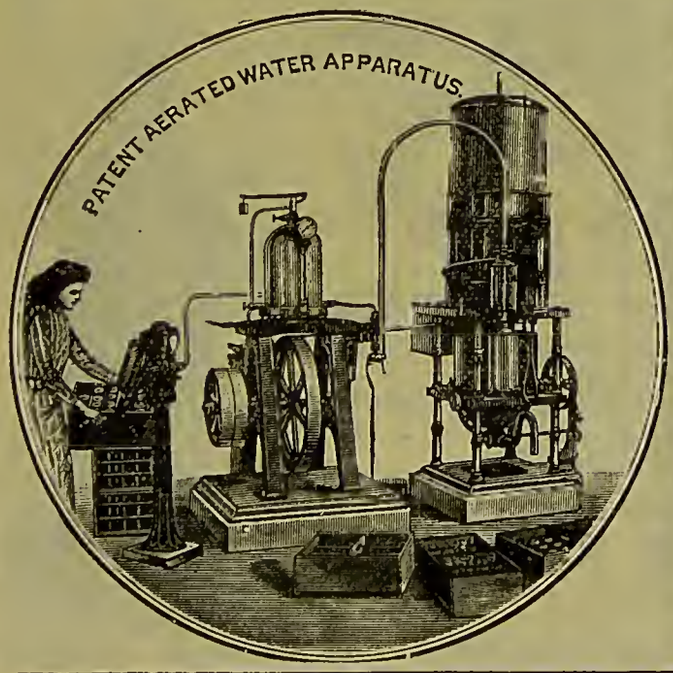
ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

Try "MELOKA," Our New Beverage.





SODA-WATER MACHINERY DEPARTMENT.

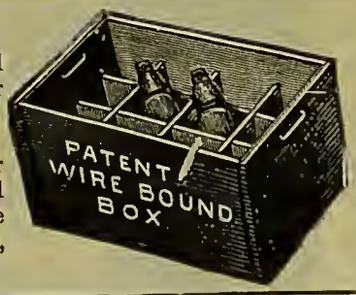
This Machinery possesses exceptional merits. The Aërated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aërated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been **over 4,500 sold.**

BOX DEPARTMENT.

Our PATENT WIRE-BOUND and "DINO" BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our boxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

DAN RYLANDS, LIMITED, BARNSLEY, ENGLAND

'OBERBRUNNEN' MINERAL WATER

OF GREAT VALUE IN GOUT.

Of all the Mineral Springs at Salzbrunn, the Oberbrunnen is the most employed for drinking purposes, as a remedial agent in particular."—PROFESSOR FRESENIUS.

The use of the "Oberbrunnen" Water is indicated in the following conditions:—

GOUT
URIC ACID DIATHESIS
GALL STONES
HEPATIC DERANGEMENTS
INTESTINAL CATARRH
ANÆMIA CHLOROSIS

THROAT AFFECTION
LARYNGEAL CATARRH
PULMONARY EMPHYSEMA
TUBERCULAR DIATHESIS
SCROFULA
RICKETS

Trade price 9/- per dozen, or 36/- per case of 50 bottles, CARRIAGE PAID.

Samples and Pamphlet free on application to the Sole Importers—

INGRAM & ROYLE.

LONDON: 52 Farringdon St., E.C. LIVERPOOL: 19 South John St.

DETAILED PRICE LIST (CARRIAGE PAID) OF ALL NATURAL MINERAL WATERS ON APPLICATION

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative is
ROLLAND'S COCA LIQUEUR.
The best Nerve Tonic is
ROLLAND'S COCA LIQUEUR.
The best Renewer of Health is
ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

SOLE PROPRIETORS OF

THE PARISIAN VAPORISER & EAU DE LIS.

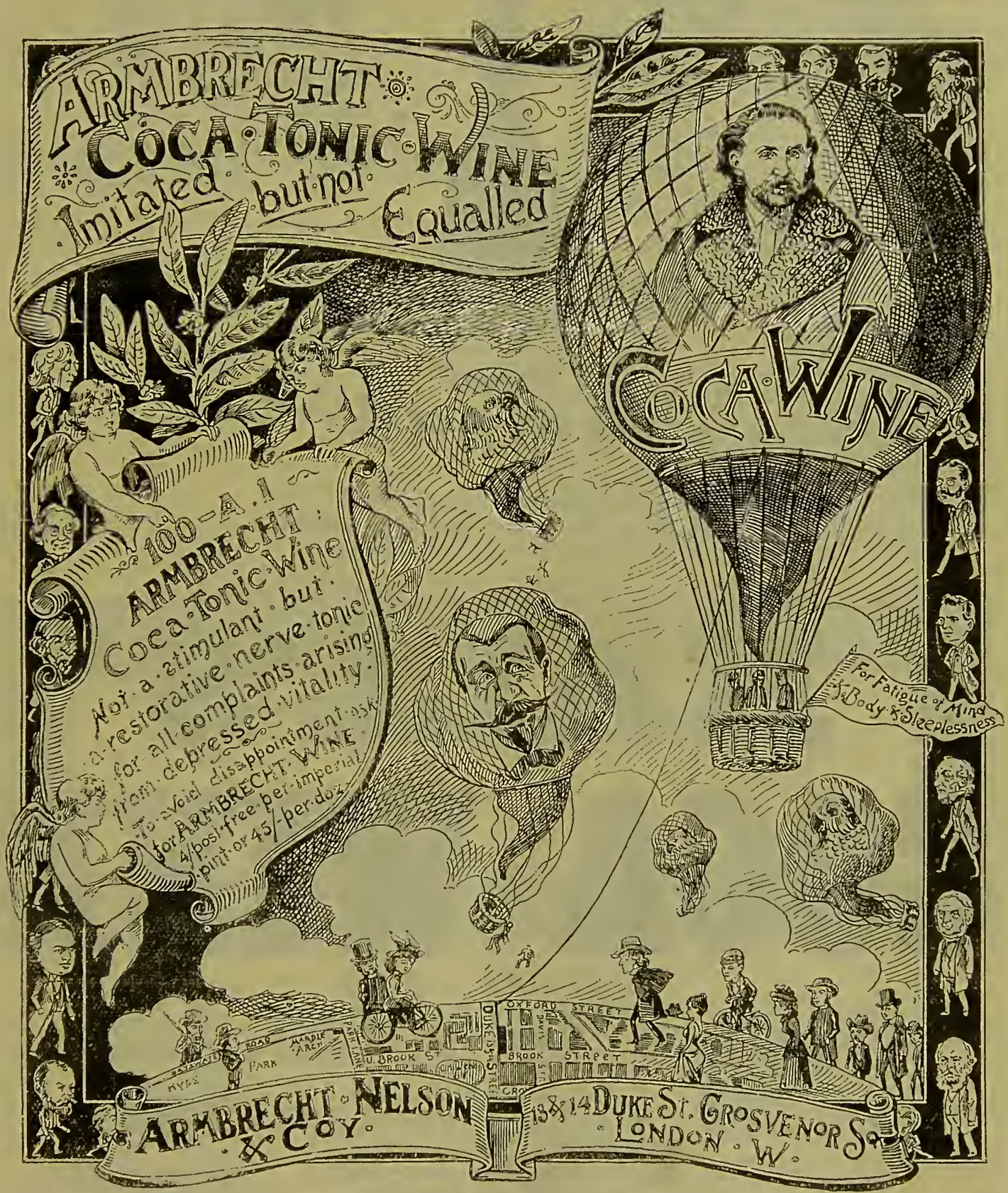
Price 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, LONDON, W.

ARMBRECHT 100-A. 1 TONIC



MESSRS. ARMBRECHT, NELSON & CO., THE ORIGINAL COCA WINE MAKERS,

Will forward on receipt of £1 15s. 2d. One dozen (4s 6d.) bottles Wine, carriage paid, with beautiful Showcards and Pictures of London. Three dozen ditto for £5 2s. 7d.; six dozen ditto for £9 14s. 5d.

ADDRESS DIRECT FOR ABOVE. (Dummies for Window Free of Charge).

LAURENT-PERRIER

coca-tonic

A high-class Wine and powerful Nerve Restorative.

Prepared by Laurent-Perrier, Bouzy-Reims.

2/-, 3/9, and 7/-

Champagne

Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of Introduction in country and town, to the Sole Consignees—

HERTZ & COLLINGWOOD, 4 Sussex Place, London, E.C.

HALL'S COCA WINE

3/6 Size - 26/- per Case (1 doz.)

2/0 Size - 30/- per Case (2 doz.)

Can be obtained through the Wholesale Houses, or from the Proprietors,

STEPHEN SMITH & CO., BOW, LONDON.

TEMPERANCE WINES

CAN BE MADE WITH

MASON'S WINE ESSENCES

Most Refreshing at Children's Parties and all Social Gatherings. Non-alcoholic, Pure, and very Refreshing.

A Lady writes:—"The 6*d.* bottle of Ginger Wine Essence made several bottles of most delicious wine, far better than what we have paid 2*s.* a bottle for. It is most suitable for children's parties."

GINGER, LEMON, ORANGE, RASPBERRY, &c.

Try the Ginger and Raspberry. The Wine will be just ready for Christmas.

SOLE INVENTORS AND MANUFACTURERS—

NEWBALL & MASON,

NOTTINGHAM.

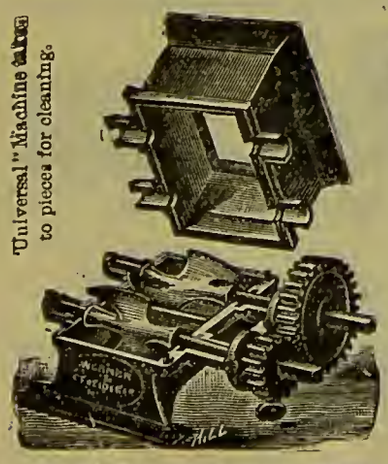
STEVENSON & HOWELL'S

RASPBERRY FRUIT EXTRACT & STRAWBERRY CREAM EXTRACT

FOR ICES, SYRUPS, AND FONDANTS.

The only highly Concentrated Essences in the market derived from Fruit alone.

95a SOUTHWARK STREET, LONDON. [2]



"Universal" Machine taken to pieces for cleaning.

Size 3, Type I., for 1-lb. Mass.

THE "UNIVERSAL"

Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

OINTMENTS, POWDERS, AND MASSES of any Consistency.

PILL MASSING MACHINES.

PILL PIPERS, CUTTERS, ROUNDERS, COATERS, "SPIRAL BRUSH" POWDER-SIFTERS

(WITH INTERCHANGEABLE SIEVES),

AND EVERY ACCESSORY FOR THE PILL ROOM.

WERNER, PFLEIDERER & PERKINS (LIMITED),

43 Regent Square, GRAY'S INN ROAD, W.C.

SHOWROOMS:—117 QUEEN VICTORIA STREET, E.C.

Contractors to the War Offices of all the Great Powers & other Governments.

ROBINSON'S
LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various **Beef Wines** I have had occasion to examine, none have **equalled** as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to **Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.**

WILLIAM ELBORNE, F.C.S., F.L.S.,
Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

Introduced 1855.] ROBINSON'S CONCENTRATED WATERS. [Introduced 1855.

One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.

Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver., Concent., 6/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/ lb.
" Anisi " 4/ "	" Cassiæ " 4/ "	" Menth. Pip. " 4/ "	" Rosæ " 8/6 "
" Camphoræ " 4/ "	" Flor. Aurant. " 8/6 "	" " Ang. " 6/ "	" Rosæ Virgin " 10/6 "
" Carui " 4/ "	" Flor. Sambuci " 8/6 "	" " Virid. " 4/ "	

The above are put up in Bottles of ½ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, *July* 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us, we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are *excellent in quality*, and will be very useful, especially in country practice." [1]

Wholesale Agents: HEARON & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR—
B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

HIRST, BROOKE & HIRST (LIM.), LEEDS,

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

QUALITY

BRINGS ITS OWN REWARD.

THOSE WHO SELL

GLENDENNING'S BEEF & MALT WINE

FIND THEIR SALES INCREASE. WHY?

Because! the constituents used are of the very finest quality, and the public are finding it out.

Order through wholesale houses or direct from Sole Proprietors—

WM. GLENDENNING & SONS,
IMPORTERS OF SPECIAL WINES FOR INVALIDS.
9 Grainger Street, NEWCASTLE-ON-TYNE. Established 1867.

40% PROFIT!

There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

A GUARANTEED PROFIT OF 8s. IN THE £.

TRY IT—IT WILL PAY YOU.

Send Postcard for Particulars and Form of Agreement to

G. & G. STERN, 62 Gray's Inn Road, LONDON, W.C.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
1d. Giant " dozen parcels	6/-	8/6
" " ½-gross boxes	6/6	9/-

	Per gross.	Extra quality
½ Bottles, flat or round, reputed half-pints	16/-	28/-
¾ " " " pints	28/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	82/-
12½-Gallon Casks (*casks free*) each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

ASTLEY COOPER'S

PURE ENGLISH

GELATINES.

MEDICAL OPINIONS.

The Lancet.—An admirable degree of Purity and Transparency.

British Medical Journal.—Good Gelatine of excellent quality.

Chemist and Druggist.—Of extreme purity.

THEY ARE CHEAPER THAN FOREIGN, and absolutely free from Sulphur, Acid, and all Chemicals. Samples and prices free from the Sole Manufacturers,

ASTLEY COOPER & CO.

Analytical Consulting & Manufacturing Chemists, LEEDS.

A. MILLAR & CO., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

W. H. & F. J. HORNIMAN & CO., LTD.

ORIGINAL IMPORTERS OF THE PURE TEA IN PACKETS.

Blended from the finest Spring Crops of the best gardens in India, China & Ceylon.

BUY DIRECT FROM THE IMPORTERS THE BEST AND CHEAPEST PACKET TEAS IN THE WORLD.

For sixty years Horniman's Pure Tea has been celebrated for its high quality, great strength, and delicious flavour.

Certificates of Analysis from ARTHUR HILL HASSALL, M.D., and GRANVILLE H. SHARPE, F.C.S.

The demand is daily increasing from all parts of the country. With opening parcel are enclosed handsome Showcards, Transparencies, Bills, &c. Agents' Names are advertised at Railway Stations and in Local Newspapers.

ALL CHEMISTS AND DRUGGISTS SHOULD SELL

HORNIMAN'S PURE TEA

ON ACCOUNT OF ITS HIGHLY NUTRITIVE AND DIGESTIVE PROPERTIES.

Every Packet bears the signature and Registered Trade Mark of the Company as a guarantee of Purity.

LIBERAL PROFIT TO AGENTS.

FOR TERMS, WHOLESALE AND EXPORT, APPLY BY LETTER TO

THE SECRETARY, W. H. & F. J. HORNIMAN & CO., LIM.

28, 29, 30, 31, 32 & 33 Wormwood St., LONDON, E.C.

Teas blended in Bond for Export, put up in Tins and Packets suitable for all parts of the World.

Bonded Stores ... ... BROOK'S WHARF, THAMES STREET.

CAUTION.

YORKSHIRE RELISH.

IN THE
HIGH COURT OF JUSTICE,
CHANCERY DIVISION.

MR. JUSTICE KEKEWICH.

Between
WILLIAM POWELL
(Trading as Goodall, Backhouse & Co.), *Plaintiff*,
AND
MICHAEL HEISER, *Defendant*.

NOTICE IS HEREBY GIVEN that on the 17th day of November 1894 Mr. Justice Kekewich granted a Perpetual Injunction (by consent) in this Action restraining the Defendant his servants and agents from selling or offering for sale any Sauce not of the manufacture of the Plaintiff under the title "Yorkshire Relish" and from passing off or attempting to pass off and from enabling others to pass off Sauce not being goods of the Plaintiff as or for the goods of the Plaintiff **BY THE USE OF THE TERM "YORKSHIRE RELISH"** or by the use of a label so nearly resembling in colours and general appearance the labels used by the Plaintiff as to be calculated to deceive or in any other way and a sum of £2 agreed damages together with the costs of the action were ordered to be paid to the Plaintiff.

Dated this 20th day of November, 1894.

J. SEYMOUR SALAMAN,
65 and 66 Chancery Lane, London.
Plaintiff's Solicitor.

WRITE TO-DAY FOR FREE
FULL-SIZED SAMPLE TIN OF
"DORINA" NURSERY BISCUITS
H. B. CHIBNALL, HAMMERSMITH

RANDALL'S
BLACK CURRANT LOZENGES

Plain Black Currant, old square 2/6
Plain Black Currant, rough oval 2/6
Black Currant and Ipecacuanha 2/6
Black Currant and Tannin .. 3/
Black Currant Voice (warm astringent) 3/
Black Currant Cough Lozenges* 3/6
*Ipecac. & Morph., strength as "B.P."

In Bottles, 1-lb., 2-lb., 4-lb., and 7-lb. For exportation, in soldered Tins, of any size. From W. Edwards & Son and J. Sanger & Sons, London; through any Wholesale House; and from the Manufacturers,

RANDALL & SON, SOUTHAMPTON,
(W. B. RANDALL, H. WILSON),
Who will forward Samples by post on application.

Also **Brown Cough Lozenges, 2/-**; 7 lbs. stamped with name free.
N.B.—Medical Lozenges of every kind, including those of the Pharmacopœia of the Hospital for Diseases of the Throat, London, *made with Black or Red Currant.*

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NEW PATENT
NIGHT LIGHTS.
"VENUS"
For Burning in Glasses without Water.
"GLOW WORM"
For Burning in Saucers with Water.
BOTH ARE PERFECTLY
Safe, Clean, Reliable,
AND
CONTAIN **NO** GREASE.
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PALMER & CO., LTD.,
STRATFORD, LONDON, E.

PLASTERS.

For all descriptions of the above see Price List of undersigned.

Belladonna in all descriptions is made entirely with Extract of our own manufacture, and is superior to most offering.

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LONDON:
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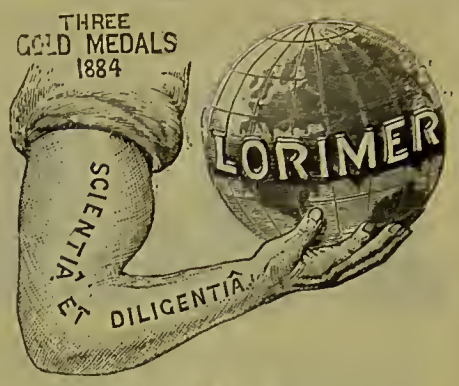
CANADA:
EVANS and SONS (LIM.)

You can save time . . and money by coming direct to us. . . . . .



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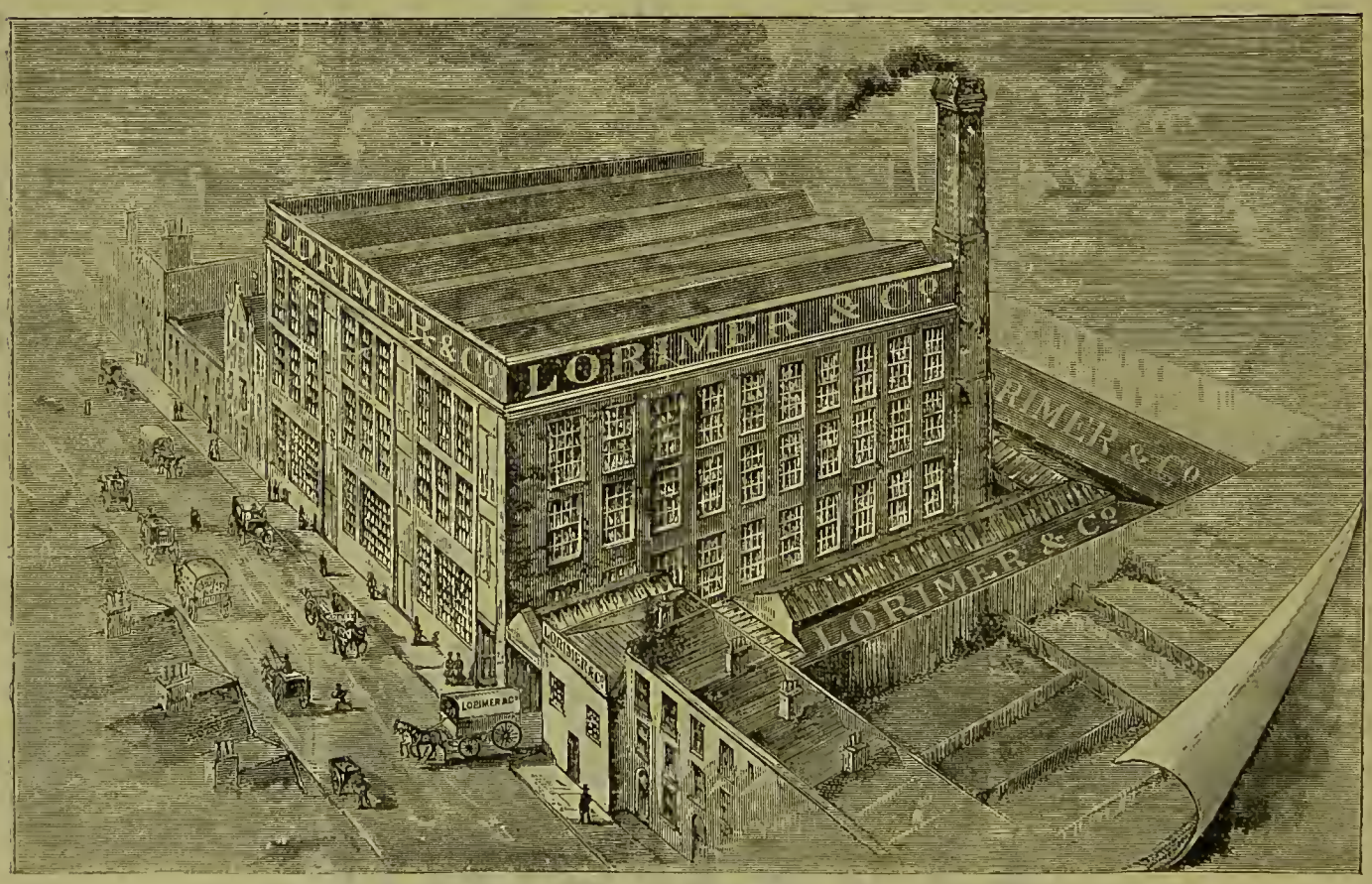
WE are Manufacturers of Granular Effervescing Preparations, Scaled Preparations, Extract of Malt, Medicated Lozenges, Coated Pills, Medicated Wines, Soluble Capsules, and all Pharmaceutical Preparations. . . . . Proprietors of Lorimer's Syrup of Hypophosphites, "Gold Medal" Chemical Food, Iodised Oil (Patent), Lorimer's Coca Wine, "The Perfect" Castor Oil, Coca Jelly (Patent), and Sole Agents for Fels's Germicide Soap.

Price List on application.



LORIMER & CO.

Britannia Row,

LONDON, N.

Established 1870.

Telegraphic Address:—
"CALISAYIN LONDON."

Telephone No. 7524.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

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Morris & Callard (Salts)

ACIDS
Boulton, J., & Co., Lim.

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Harris, J.
Sears, F. W.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aërated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourne)
Oberbrunnen
Pickardt & Co.

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby and Hinchliffe, Lim.
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

ALMANACKS
Davis, J.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
De Grave, Short, Farmer & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.
Wood, Vincent

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Pattison, G. | Solport Bros.
Wood, Vincent

BATH SALTS
Landor, Anderson & Co.
Tidman & Son, Lim.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnsen & Jörgenson
Kilner Bros.
Lofoden Cod Liver Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Toogood, W. | Youldon, E.

BOOKS
Hargreaves, Dr., M.D.
Southall's "Materia Medica"
Squire's "Companion"
Squire, P.

BORAX
Howards & Sons
Mack's Starch

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros. | Maxime & Co.
Kirtley, G. C.
Robinson & Sons
Rylands, Dan Lim.

BRUSHES
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.
Tomlinson & Hayward

CACHOUS
Bicasdale & Co.
Blyton, Astley & Co.
Kalmos & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CAPSULES
Denoual, J (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim.
Hooper, B., & Co.
Lloyd, T. H. ward, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parke, Davis & Co.
Richardson, John, & Co. (Leicester), Lim
Warrick Bros
Wyleys, Lim.

CALENDARS
Ford, Shapland & Co.
Hildesheimer, S., & Co., Lim.
Speller & Co. | Townsend, J.

CARBOLIC ACID
Mason, C. E., & Co.
Wandsworth Chemical Works, Lim.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parke, Davis & Co.
Squire & Sons
Stearns, F., & Co.

CERESINE WAX
Boehm, Fredk. | Pfister, F.

CHALK, PRECIP.
Levermore, Aug., & Co.
Morrison, R., & Co.
Nicholls, G. W.

CHECK TILLS
Gledhill G. H., & Co.
O'Brien, Thos.
Stokes, G. R., & Co., Lim.
Voucher Check Till Co., Lim.

CHEMICALS
Bergor, Kahler & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHEST PROTCTRS
Ayrton & Saunders
Hockin Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Solport Bros.
Wood, Vincent

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co

COCAINE-HYDRO.
Howards & Sons

COCA WINE
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French Hygienic Soc.
Lorimer & Co.
Stephen Smith & Co. (Hall's)

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Stearns, F., & Co.
Woolley, Sons & Co.
Wright, Layman & Umney

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Betts & Co.
COMBS
Hovenden & Sons
COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Hooper, B., & Co. | Leo & Co.
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Parke, Davis & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.
CONCENT. LIQRS.
Baiss Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
CONFECTIONERY
Randall & Son
CORN CURES
Gardner, C.
COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons
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Mumford, G. S. | Sizer Bros.
DENTIFRICES, &c.
Beechnm, T.
Bronnley, H., & Co.
Hanson, O. | Hovenden & Sons
Jewsbury & Brown
Lakeman, J. J. | Stevens, P. A.
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)
DISINFECTANTS
Barclay & Sons, Lim.
Beedzler & Co. | Brooks, T.
Drysdale, J. W., & Co.
Dussek Bros. & Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Hebden, W. C.
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. Lim.
Wandsworth Chemical Works,
DOG MEDICINES
Spratt's Patent, Lim.
DRUGGISTS' SUN.
Andrews & Co.
Avrton & Saunders
Barclay & Sons, Lim.
Belden, E. & W.
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
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Fordham, W. B., & Sons, Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Howard, J., & Co.
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Maw, S., Son & Thompson
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Palmer & Co., Lim.
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Tidman & Son | Toogood, W.
Tunbridge & Wright
The Tweed Fountain Co.
Wood, Vincent
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Hopf, R. | Morrison, R., & Co.
Phillips & Co. [(Grinders)
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DYES, &c.
Crawshaw & Co.
Hatrick & Co., Lim.
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Hockin, Wilson & Co.
ECZEMA
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Cullwick's Blood Tablets
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Elliman, Sons & Co.
ENEMAS
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Evans, Sons & Co.
Putney, J., & Sons
Sanger & Son | Wood, Vincent
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Bovril, Lim. (Beef)
Brathy & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hodgkinsons, Prestons & King
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Nowhall & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ENGRAVERS
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ESSENTIAL OILS
Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co. [Clarke
Hodgkinsons, Treacher &
May & Baker, Lim.
Poppelrouter, W.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sozio & Andriolli
Spurway & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Treatt, R. C. | Warrick Bros.
Wideamann, Broichor & Co.
Wright, Layman & Umney
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Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
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White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney
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Kühn, B.
EUCALYPTUS
Laughland, Mackay & Baker
Massey & Co.
Tasmanian Eucalyptus Oil Co.
EXALGINE
Kühn, B.
EXTRACT MEAT
Armour & Co. | Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother
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Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Wright, Layman & Umney
EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son
Stearns, F., & Co.
FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros.
Youldon, E.
FILTERS
Fordham, W. B., & Sons, Lim.
FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
May, Roberts & Co.
Silverlock, H. | Strong, Christy
Tidman & Sons
Tunbridge & Wright
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Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Chibnall, H. B.
Evans, Sons & Co
Glendonning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Mason, F.
Mason, G., & Co., Lim.
Mellins Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.
FORMULÆ
Brooks, T.
FULLERS' EARTH
Fullers' Mining Co., Lim.
GAS BURNERS
Incandescent Gas Light Co., Ld.
GELATINES
Astley, Cooper & Co.
Boehm, F.
Heins, J., & Co.
GINGER ALE
Brathy & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons, Lim.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.
GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
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Chesebrough Co.
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Epps, James & Co., Lim.
Keene & Ashwell
Leath & Ross
Watson & Wates
HOT WATR BTTLS
Currie & Co.
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Duncan, Flockhart & Co.
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Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
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Hockin, Wilson & Co.
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Tyrer, P.
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Caspar & Co.
LARD
Ewen, J., & Sons
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Evans, Sons & Co.
Lorimer & Co.
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Liverpool Lint Co.
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Newsomo, C.
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Dennis Di Luggo & Co.
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Blyton, Astley & Co.
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Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Warrick Bros.
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Bennett, Sons & Shears Lim.
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Gardner, W.
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Raimes & Co.
Raimes, Clark & Co.
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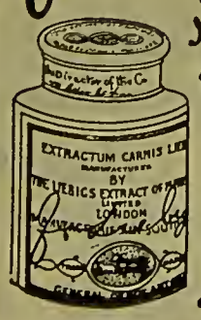

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Handsome Show Card, Price List and Terms on receipt of Business Card.

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OSWALD HANSON, 1 Ward's End, Halifax, Yorkshire.

OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.

Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST, 1185 & 1187 CHESTER ROAD, STRETFORD, MANCHESTER.

A FIVE POUND NOTE.

THE following goods, especially suitable for the Christmas trade, will be sent Carriage Paid to any Chemist in the United Kingdom on receipt of Five Pounds, or satisfactory trade references.

12 dozen Assorted Toilet Soaps, price 18/-, handsomely wrapped, and packed in attractive Counter Cases.

GLYCERINE & CUCUMBER, WHITE ROSE & CUCUMBER, COLD CREAM & GLYCERINE, OATMEAL & COLD CREAM, MARSHMALLOW, EUCALYPTUS, MUSK BROWN WINDSOR, &c., &c.

1 doz. Fancy Boxes, each containing 3 Tablets Rose Soap ...	(list price	4/9)
2 „ „ „ 6 „ Assorted Soaps	(„	8/6)
6 „ Assorted 2*d*. Perfumes, Carded	(„	8/-)
6 „ „ 3*d*. „ „	(„	12/-)
3 „ „ 6*d*. „ (3 different shapes)	(„	11/3)
2 „ „ 1/- „ (6 „)	(„	15/9)
1 „ „ 2/- „ (2 „)	(„	16/6)
1 „ „ 6*d*. Glycerine Jelly (for chapped hands), in Glass Show Case	(„	4/-)
1 lb. Bottle Perfume—White Rose, Jockey Club, or Opoponax	(„	10/-)
LIST PRICE OF ABOVE GOODS		**£5 8s. 9d.**

Specially offered (in free case) for £5 nett, Carriage paid.

FULL PRICE LIST OF TOILET SOAPS, PERFUMERY, & DRUGGISTS' SUNDRIES SENT FREE ON APPLICATION TO

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PHYSICIANS ARE CONSTANTLY PRESCRIBING

THE VALUABLE SYNTHETIC CHEMICALS

SALOL, PHENACETINE, SULPHONAL,

and like preparations. Generally they specify that such should be in the form of Powders, so that rapid effects may be secured, the Pill and Compressed forms being found largely insoluble. These salts are put up in

PALATINOIDS,

which offer the advantages of being easy to swallow, palatable, and immediately soluble. If, therefore, Chemists would stock these largely prescribed drugs in this most acceptable form, a ready sale and good profits would result.

We put up these salts in Palatinoid form in the following doses :—

		Per doz. small bottles.		Per doz. gross.
Phenacetine	5 grs.	8/6	...	36/-
Salol	5 grs.	8/6	...	33/-
Sulphonal	5 grs.	8/6	...	36/-

Besides these saleable Palatinoids, we would direct the attention of Chemists to the following formulas, which are being largely prescribed by the Medical Profession :—

LAPACTIC (Registered). The new aperient combination of Aloin, Strychnine, Belladonna, and Ipecac.

MICRAINE. For Headache.

LAXATONIC. A tonic laxative of very mild action and pleasant effects.

PEPTONIC. A combination of powerful and valuable digestive ferments, presenting agents most prescribed in dyspepsia.

The new edition of our Price List will be ready for distribution in the near future. Send for our revised Discount Schedule.

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"TABLOIDS" OF COMPRESSED DRUGS

Are made from the purest drugs obtainable;
Are accurately and uniformly made;
Are as elegant as they are convenient;
May always be relied upon to contain exactly the quantities stated on the label;
Are always acceptable to the patient when pills and powders are objected to;
Readily dissolve, or, where the drug itself is insoluble in ordinary media, easily disintegrate;
Are compressed with every regard to the therapeutic use, value, and effect of the drug implicated;
Occupy so little space that patients may easily carry their daily doses about with them;
Secure to the patient absolute reliability in effect and palatibility in the medicine.

Aconite Tinct., 1 and 5 min.
Agathin, 4 gr.
Aloin, 1/10 gr.
* Aloin, Compound (Anti-constipation) (*Aloin*, 1/5 *gr.*; *Belladonna Ext.*, 1/8 *gr.*; *Strych.*, 1/60 *gr.*; *Ipecac.*, 1/16 *gr.*).
Alumnol, 4 gr.
Ammon. Bromide, 5 and 10 gr.
Ammon. Chloride, 3, 5, and 10 gr.
Ammon. Chloride with Borax.
Antacid (Magnesio-Calcic) (*Calcium Carb. Præcip.*, 3½ *gr.*; *Magnes. Carb.*, 2½ *gr.*; *Sodium Chlorid.*, 1 *gr.*).
Antifebrin, 2 gr.
Antim. Tartrate, 1/50 gr.
* Antipyrin, 2½ gr.
Antipyrin, 5 gr.
Apomorphine Mur., 1/50 gr.
Arsenious Acid, 1/100, 1/50, & 1/20 gr.
Atropine Sulph., 1/100 gr.

Belladonna Tinct., 1, 5, and 15 min.
Benzosol, 5 gr.
Bismuth and Soda, 2½ gr. each.
Bismuth Salicylate, 5 gr.
Bismuth Subnitrate, 5 and 10 gr.
* Blaud's Pill, 4 gr.
* Blaud's Pill c. Aloin 1/20 gr.
* Blaud's Pill c. Arsenic 1/64 gr.
Blue Pill, 3 gr.
Borax, 5 gr.

Caffeine Citrate, 2 gr.
* Calcium Sulph. 1/10 gr.
Calomel, 1/10, 1/2, and 1 gr.
Camphor Comp. Tinct. (Paregoric), 2, 5, and 15 min.
Cannabis Indicæ Tinct., 5 min.
Capsicum Tinct., 1 min.
* Cascara Sagrada Ext., 2 gr.
* Cascara Comp. (*Cascara Ext., Dry*, 1 *gr.*; *Euonymin*, 1/2 *gr.*; *Nux Vomica Ext.*, 1/16 *gr.*; *Hyoscyamus Ext., Dry*, 1/3 *gr.*; *Iridin*, 1/2 *gr.*).
* Cathartic Comp., U.S.P. (*Ext. Coloc. Co. Pulv.*, 1½ *gr.*; *Ext. Jalapæ Pulv.*, 1 *gr.*; *Hyd. Subchlor.*, 1½ *gr.*; *Cambogiæ Pulv.*, 1/4 *gr.*).
Cerebrinin, 5 gr.
Charcoal (Pure Willow), 5 gr.
Chloralamid, 5 gr.
Chloral Hydrate, 5 and 10 gr.
Cinch. Tr., 30 min.
Cinch. Co. Tr., 30 min.
Cocaine Mur., 1 gr.
Cocaine, with Potash and Borax (*see Voice*).
Copper Arsenite, 1/1000 gr.
Cretæ Aromat. cum Opio Pulv., 5 gr.
Cubeb & Belladonna, Effervescent.
Cubeb. Comp. (*Cubeb. Pulv.*, 2 *gr.*; *Ammon. Chlor.*, 1/2 *gr.*; *Ext. Glycyrrh.*).
Dermatol, 5 gr.
Dialysed Iron, 10 min.
Didymin, 5 gr.
Digitalis Tinct., 1 and 5 min.
Digitalin, 1/100 gr.
Diuretin-"Knoll," 5 gr.
Dover Powder (*see Ipecac. and Opium*).
* Easton's Syrup.
* Ergotin, 3 gr.
Eucalyptol Phosphate, 1 gr.
Euonymin Resin, 1/8 gr.
Exalgin, 2 gr.
Ferri Sulph. Exsic., 3 gr.
Geleem. Semp. Tr., 5 min.
Guaiacum and Sulphur, aa 3 gr.
Hydrarg. Colocynth., c. Hyoscyamus (*Pil. Hdrarg.*, 2 *gr.*; *Pil. Coloc. et Hyos.*, 4 *gr.*).

Hydrarg. cum Cretâ, 1/3, 1/2, and 1 gr.
Hydrarg. cum Cretâ, 1 gr.; with Pulv. Ipecac. Co., 1 gr.
Hydrarg. Iod. Rub., 1/16 gr.
Hydrarg. Iod. Vir. 1/8 gr.
Hydrarg. Perchlor., 1/100 gr.
Hydrarg. Subchlor., 1/10 gr. (*see also Calomel*).
* Hydrastia Comp. (*Hydrastin Mur.*, 1/4 *gr.*; *Ergotin*, 1/2 *gr.*; *Cannabin Tannate*, 1/2 *gr.*).
Hydronaphthol, 3 gr.
Hyoscyam. Tr., 1 and 10 min.
Hypnal, 5 gr.
† Ichthyol, 2½ gr.
Iodic Hydrarg, 1/6 gr.
Iodopyrin, 5 gr.
Ipecac. and Opium, 1/4 and 5 gr.
Ipecac. Powder, 1/10 and 5 gr.
Ipecac. Pulv. cum Antim. Tart., aa 1/100 gr.
Ipecac. Vin., 5 min.
* Iron and Arsenic Comp. (*Quinine Bisulph.*, 1 *gr.*; *Iron Hypophosph.*, 2 *gr.*; *Arsenic, Strych. Sulph.*, *aa* 1/50 *gr.*).
* Iron and Quinine Cit., 8 gr.
* Laxative Vegetable (*Res. Podoph., Ext. Hyoscy., Ext. Taraxac.*, *aa* 1/4 *gr.*; *Ext. Coloc. Pulv.*, 1 *gr.*; *Ext. Jalapæ Pulv., Res. Leptand.*, *aa* 1/2 *gr.*; *Ol. Menth. Pip.*).
Lithia Carbonate, 2 gr.
* Lithia Co. (*Lithia Benzoas*, 3 *gr.*; *Sulphur Præcip.*, 2 *gr.*; *Quin. Salicy.*, 1/3 *gr.*). (Mr. Hugh Lane).
Magnes. Carb. Comp. (antacid) (*Pot. Bicarb.*, 2 *gr.*; *Sodium Bicarb.*, 2 *gr.*; *Magnes. Carb. Levis.*, 2 *gr.*; *Sodium Chlorid.*, 3 *gr.*).
Magnesium Sulphite, 5 gr.
Manganese Dioxide, 2 gr.
Menthol Comp. (*Sodium Bic.*, 3 *gr.*; *Menthol* 1/2 *gr.*; *Saccharin*, 1/4 *gr.*)
Morphine Sulph., 1/20 and 1/8 gr.

Nasal (Dr. Carl Seiler).
Nasal, Alkaline (Effervescent) (*Borax*, 5 *gr.*; *Sodium Chlor.*, 5 *gr.*)
Nasal, Antiseptic and Alkaline (*Sodium Bic.*, 5 *gr.*; *Acid. Carbolic.*, 1/2 *gr.*; *Borax*, 5 *gr.*).
Naso-pharyngeal (*Sodium Chlorid., Borax, Boric Acid, Benzoic Acid, Menthol, Thymol, Cocaine Mur., Ol. Gaultheriæ.*) (Dr. Macnaughton Jones).
Nitroglycerine, 1/100 gr. (*See also Trinitrine*).
Nux Vomica Tinct., 1, 3, & 10 min.

Opium Tinct., 2, 5, and 10 min.
Opium, 1/2 and 1 gr.

Pancreatin (*see "Zymine" "Tabloids"*).
Papain, 2 gr. (Dr. Finkler & Co.).
* Pepsin (Fairchild).
Pepsin, Bismuth, and Charcoal (*Pepsin*, 1 *gr.*; *Bismuth Carb.*, 2 *gr.*; *Charcoal*, 2 *gr.*).
Pepsin, Saccharated (Wyeth), 5 gr.
* Peptonic, 3 gr. (*Pepsin, Pancreatin, and Lactophosph. of Lime, p. æq.*).
* Peptonic (new process) ("*Zymine*," 1 *gr.*; *Calcium Lacto-phosphate*, 1 *gr.*, *coated with keratin*; *Pepsin Pure*, 1 *gr.*, *is then added, and the complete "Tabloid" coated with pure white sugar*).
Phenacetin (Bayer), 5 gr.

Pilocarpin Mur., 1/20 gr.
Podophyllin Resin, 1/4 gr.
Podophyllin Co. (*Podophyllin Resin*, 1/6 *gr.*; *Pil. Rhei Co.* 2½ *gr.*; *Ext. Hyos.* 1½ *gr.*) (Sir William Moore).
Potass Bicarb., 5 gr.
Potass Bromide, 5 and 10 gr.
Potass Chlorate, 5 gr.
Potass Chlorate with Borax.
Potass Iodide, 5 gr.
Potass Nit. 5 gr.
Potass Permanganate, 1 and 2 gr.
Potass, Salicylate, 5 gr.

Quinine Bisulphate, ½ gr.
* Quinine Bisulph., 1, 2, 3, and 5 gr.
Quinine Sulphate, 1, 2, 3, and 5 gr.

Reduced Iron, 2 gr.
Resorcin, 3 gr.
* Rhubarb Comp. (Pil.), 3 gr. (*Rhe Pulv.*, 1½ *parts*; *Aloes Soc. Pulv. part*; *Saponis Pulv.*, 5/8 *part Myrrhæ Pulv.*, 5/8 *part*; *Ol Menth. Pip.*).
Rhubarb Comp. Pulv. (Gregory Powder), 5 gr.
Rhubarb and Gentian (Stomachic Comp.) (*Infus. Gentian. Co.*, 2 *fl. dr.*; *Infus. Rhei*, 2 *fl. dr.*; *Sodium Bic.*, 5 *gr.*; *Ol. Menth. Pip.*, 1/2 *gtt.*).
Rhubarb and Soda, 5 gr. (*Rhub.* 3 *pts.*; *Sodium Bicarb.*, 2 *pts.*; *Ginger.*, 1/2 *pt.*).
Rhubarb, 3 gr.
Saccharin, 1/2 gr.
Salicin, 5 gr.
Salol, 5 gr.
Santonin, 1/2 gr.
Sodium Bicarbonate, 5 gr.
Sodium Dithio-salicylate, 4 gr.
Soda-Mint or Neutralising "Tabloids" (*Sodium Bicarb.*, 4 *gr.*; *Ammon. Carb.*, 1/8 *gr.*; *Ol. Menth. Pip.*, 1/8 *gr.*).
Sodium Salicylate, 3 and 5 gr.
Strophanthus (2 minims of Tinct. in each).
Sulphonal, 5 gr.
Sulphur Comp. (*Sulph. Præcip.*, 5 *gr.*; *Potass Bitart.*, 1 *gr.*). (Sir A. Garrod.)
Tannin, 2½ gr.
Tar, 1 gr.
Tar, with Codeine (*Tar*, 1 *gr.*; *Codeine*, 1/8 *gr.*).
Test "Tabloids" (for preparing Fehling's Solution).
Thirst.
Thyroid Gland, 5 gr.
Tinct. "Tabloids." In oval bottles and bottles of 100.
* Tonic Comp. (*Iron Pyrophos.*, 2 *gr.*; *Quinine*, 1 *gr.*; *Strych.*, 1/100 *gr.*).
Trinitrine (Nitroglycerine), 1/100 and 1/50 gr.
Trinitrine and Amyl Nitrite.
Trinitrine Comp. (*Trinitrine*, 1/100 *gr.*; *Nitrite of Amyl*, 1/4 *gr.*; *Capsicum*, 1/50 *gr.*; *Menthol*, 1/50 *gr.*).
Urethane, 5 gr.
Voice (*Potash, Borax, and Cocaine*).
Warburg Tincture, 30 min. in each.
Zinc Permanganate, 1/8 gr.
Zinc Sulphate, 1 and 10 gr.
Zinc Sulpho-carbolate, 2 gr.
Zingib. Fort. Tinct., 5 min.
† "Zymine" (Fairchild).
† "Zymine" Comp. (Fairchild) ("*Zymine*," 2 *gr.*; *Bismuth Subnit.*, 3 *gr.*; *Pulv. Ipecac.*, 1/10 *gr.*).

* May also be had sugar-coated. † May be had sugar or keratin coated.

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"For purity of the Medicines used in compounding; for ready solubility of the coating and ingredients of the 'Tabloids'; for the improved method of manufacture, and general appearance of the manufactured article."

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"VASELINE" (Pure). Card Cases.	No. 1 size, 3/0½; No. 2, 6/1; ½-lb. Tins, 7/-; 1-lb. Tins, 12/- per doz.
"VASELINE," Blue Seal.	No. 1 size, 21/-, and No. 2 size, 42/- per gross.
"VASELINE" Cold Cream.	No. 1 size, 4/9; No. 2, 7/-; No. 3, 12/-; No. 4, 21/- per doz.
"VASELINE" Camphor Ice.	Tins or Tubes, 3/0½ per doz.
POMADE "VASELINE."	No. 1 size, 3/11, and No. 2 size, 7/10 per doz.
"VASELINE" Toilet Soaps.	Unscented, Perfumed, or Tar, 20/6 per gross.

CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.

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DERMATOL DUSTING POWDER

Is a perfect preparation for Toilet and Nursery uses. The formula was originally suggested by Drs. HEINZ and LIEBRECHT with the view of embodying and utilising the valuable properties of Dermatol for the daily requirements indicated. This new Toilet Powder may be relied upon as being absolutely non-poisonous, free from odour and free from all possible irritating material. The properties of Dermatol, either as a vulnerary or for its soothing effect in chafed and irritable conditions of the skin, and its drying and antiseptic character, are well known and recognised in many memoirs that have appeared of late; and, when this fact is considered, the Dermatol Dusting Powder, which is a combination of Dermatol with pure rice starch powder, will readily recommend itself as a high-class toilet preparation. In boxes containing 50 grammes (about 1½ oz.) each.

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London: J. & A. CHURCHILL, 11 New Burlington Street, W.

The Chemist & Druggist

SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, DECEMBER 8, 1894.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

THE OBJECT OF

Advertising is the expeditious settlement of business. It is in that that this Supplement scores. All Advertisements herein are inserted on behalf of those who mean business. Some want Assistants, others Situations, Businesses, &c., and they find it profitable to fill their wants through the Supplement; otherwise they would not pay for their Advertisements in advance. Doubtless the reputation of THE CHEMIST AND DRUGGIST itself has influenced the popularity of this Supplement, but the independent facts remain—(1) it has the largest circulation; (2) a unique method of distribution and (3) secures the quickest response to small Advertisements.

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MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

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4.—£800.—**LONDON, E.**—Main populous thoroughfare; very good class Business, chiefly ready money; capital position for modern pushing business; returns between £700 and £800 yearly; well-fitted shop and good working stock; convenient house, garden, &c.; about £450 only required.

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10.—£1,000.—**LANCASHIRE.**—Middle-class Retail; capital position for pushing trade; present returns £1,000 yearly, much more can be done; 6-roomed house with yard; valuation of stock and fixtures will be accepted, about £800.

11.—£800.—**SOUTH COAST.**—Watering-place; Business good-class Retail and Dispensing; established many years; present returns between £750 and £800 yearly; double-fronted attractive shop with good stock; very good house, held on lease; price £600.

12.—£1,400.—**NORTHERN TOWN.**—Good-class Business, Retail and Dispensing, situate in a first-rate business town; returns £1,400; *profits between* 20 *and* 25 *per cent.*; the full investigation of the business is invited by a bonâ-fide purchaser; small premium and valuation, in all about £800 or £900.

13.—£500.—**LINCOLNSHIRE.**—Situate in a good-sized market town, an old-established Business; returns have been £500 to £600 yearly; vendor has held it over 20 years, and is now retiring on account of ill-health; about £200 only required, or valuation if preferred.

14.—£900.—**BERKSHIRE.**—Retail and Dispensing Business; returns between £800 and £900 yearly; good-sized house; convenient, well-fitted corner shop; large stock; price required £750.

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LANCASHIRE.—For Sale, old-established Mixed Business; in present hands over 30 years; owner retiring; returns £500 yearly, and large profits; rent £21; price £450, or valuation. Apply, Parker, c/o Evans, Sons & Co., Liverpool.

SUBURBAN Business, Manchester; present returns £450 (over) and increasing; would prefer partner, or dispose of same at a valuation; only pushing energetic man need apply. S., M.R.C.S., Owens College Medical School, Manchester.

PROFITABLE Mixed Retail and Prescribing Business for sale in Lancashire town; returns nearly £700; a good opportunity for a pushing man; room for extension; owner retiring from business; valuation. 41/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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GENUINE small Retail and Prescribing Business; lately neglected; in a thickly-populated neighbourhood; grand opportunity for one with small capital; shop well stocked; business capable of considerable increase; sound reasons for selling; established 30 years; rent £25. Address, "Drugs," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED—Cont.

AS Dispenser; whole or part time. Maddock, Old Town Hall, Hackney, N.E.

DISPENSER or Part-time; 31; good experience. H., 66 Swaton Road, Bow, E.

JUNIOR, with time for study; London preferred. Attwell, Edwards, Chemist, Godalming.

CHEMIST or Medical; experienced; aged 29; disengaged. D., 439 Mile End Road, E.

PART TIME; qualified; 24; West-end experience; good Dispenser. "Studens," 22 Markham Square, Chelsea.

MANAGER of modern Pharmacy or Traveller in Wholesale firm; qualified. "Chemist," 179 Hampstead Road, N.W.

TRAVELLER wishes to represent Drug house; security, &c.; please state salary, &c. Brown, Post Office, Hightown, Manchester.

JUNIOR, Chemist or Dispensary; 21; 5 years' experience. E. T., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MAJOR; 23; outdoors; knowledge of Photography and Homœopathy; Midlands or North preferred. Kellett, 30 South Molton Street, London.

ASSISTANT; qualified; disengaged; 22½; tall; good experience; South Coast preferred. "Minor," c/o Mr. J. Gibson, Brundholme Terrace, Keswick.

AS Manager; temporary or permanent; qualified; clever Dispenser; first-class experience and references. A. P. S., 109 Fonthill Road, Finsbury Park, N.

BRANCH Manager or Senior, by a thoroughly reliable and experienced man: highest references; tall. Address, "Chemist," Southfield, Buckhurst Hill.

WANTED, situation in Wholesale Druggists' as Traveller, Salesman, or General Assistant or in Seed Business. Apply, Messrs. Arnison & Co., Solicitors, Penrith.

ASSISTANT; 10 years' good London and provincial experience; Major; disengaged; country preferred (outdoors). E. H., Hexham House, Bury St. Edmund's.

IMMEDIATELY, Manager or Assistant; height 5 ft. 10 in.; qualified; experienced. "Chemicus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GERMAN Assistant; 26; qualified; English and French language; London experience; best references. Martin, 2 Berkley Road, Regent's Park, London, N.W.

IMMEDIATE; as General permanent Assistant; unqualified; abstainer; good references; moderate salary; country preferred. Collis, 197 St. James' Road, Croydon.

ASSISTANT; 27; qualified; good Dispensing and Store experience; London or Edinburgh preferred. 43/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER; experienced, accurate, quick; tall, good address; 23; excellent testimonials; disengaged. R. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATION as Assistant or Head Counterman; town and country experience: London Store references. 43/33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant requires situation in Manchester; aged 22; 7 years' experience: good references. Address, 38/39, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER (Drug) wants change; young, smart, well up, and thoroughly reliable; best references. "H_2O," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Senior; 11 years' good all-round experience; qualified; good references; height 5 ft. 8 in.; aged 28; permanency wanted. C. P., Molineux, Ltd., St. George's, Wellington, Salop.

AS Manager or Locum-tenens, part time, &c.; long experience in all branches; middle-aged, single, strong, and active. Address, X. Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A YOUNG German (Chemist's Assistant) is desirous of obtaining a situation for April 1, 1895. in one of the larger towns of Great Britain. H. L., 434, c/o Haasenstein & Vogler, A.G., Hamburg.

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ASSISTANT; varied Retail experience, Dispensing, with knowledge of Dentistry and Photography; aged 24; height 5 ft. 10 in.: married: unqualified: permanency. "Nemo," 156 Radford Boulevard, Hyson Green, Nottingham.

WILL any Chemist or Surgeon give employment in any capacity to middle-aged married man; life abstainer; no family; good Prescriber (registered), accomplished in all branches. "Apothecary," 60 Nightingale Road, Willesden Junction.

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WANTED, situation as Clerk or Warehouseman in Wholesale Druggist's, by young man; 27; good references. 43/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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NON-ALCOHOLIC Wines, high-class Lemon and Fruit Syrups, Lemon Squash, Culinary Essences, &c.—Bratby & Hinchliffe (Limited), of Manchester, wish to appoint a good firm of Chemists in each town in the United Kingdom agents for the above, who would undertake to call upon buyers in their locality; chemists not having full employment for their assistants during some part of the week will find this a medium of adding to their income.

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This work has been entirely re-written, and now contains about three times the matter of previous editions. It treats of the manipulation of Mixtures, Emulsions, Pills and their Excipients, Pill-coatings, Suppositories, Ointments, Plasters, Blisters, and the various other branches of the Dispenser's art. Difficult points are explained with lucidity. A useful addition has been made in the form of a comprehensive Table of Solubilities of Salts, &c., used in dispensing.

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WANTED, in January, qualified Assistant (outdoors) for good-class Mixed business; send photo and all particulars to "Alpha," c/o Evans & Co., Liverpool.

IMMEDIATE; smart Assistant (indoors), of good address and energetic, for Croydon. Send age, height, experience, salary required, with photo, or apply personally at 227 Commercial Road East, London.

MANAGER to take full charge; intelligent and energetic; wanted at once; Minor or Major qualification absolutely necessary; also Juniors and Improvers. "2168," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, single gentleman, qualified, to manage small business in seaport town; one accustomed to Extract. Full particulars, stating salary required (indoors), to "South," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RANGOON, Burmah.—Wanted, an Assistant, with Minor qualification, aged from 21 to 24 years; good Dispenser; 4 years' engagement; second-class passage paid out. Apply, Export Department, S. Maw, Son & Thompson, Aldersgate Street, London.

AN Assistant, possessing the Minor qualification, of about 26 years of age, with good address, can hear of a situation abroad by addressing his application to Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C. A passage will be provided.

QUALIFIED Assistant wanted (indoors); aged about 25, for Light Retail and Dispensing Business. Apply, stating age, height, experience, salary required, references, and enclosing photo (if convenient), to Cooper & Price, 93 Kingston Road, S. Wimbledon.

QUALIFIED Assistant wanted for quick Family trade; only 1 assistant kept; capable of taking occasional sole charge; must be well recommended. Particulars, with salary required (outdoors) and photo, to Hollick, Chemist, Burbury Street, Lozells, Birmingham.

WANTED, immediately, trustworthy, qualified Manager; must be energetic, of good experience and address. Apply, stating age, height, salary required, references, photo if convenient (to be returned), and all particulars, to Mrs. Horsfield, Hadley Lodge, Gerard Road, Rotherham.

WANTED, a good qualified Assistant, single (outdoors); must have first-class references; good Dispenser, Prescriber, and Countermaur; for Store business; hours 9 to 10.30, one Sunday evening duty in three; one evening a week off; salary 45s. week. Address, Davies, 393 Commercial Road East.

WANTED, immediately, second Assistant, about 22; accustomed to a good-class Retail, Agricultural, and Dispensing business; must be well recommended. Apply, giving usual particulars, salary required (indoors), carte if convenient (to be returned), Churchman preferred, Thomas Sellors, Chemist, Coventry.

WANTED promptly, qualified youth, in or out doors, or married man without family (abstainer preferred), in small London business in working neighbourhood; state age, salary required, and if extractor; or would sell cheap, cash, or credit on security. Address, "Boracic," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMPROVER or Turnover Apprentice.—Wanted, a steady and honest youth in a Light Retail and Dispensing business, in a small seaside watering place; one who has been about 2 years in the trade; to such board and lodging in a comfortable home is offered for services; ample time for study. "Vinum," c/o Messrs. Evans, Sons & Co., Liverpool.

COMPANY having purchased old-established main road Business, extensive populated suburban neighbourhood, position undeniable, require Manager, promising future and substantial remuneration to a reliable capable gentleman, with Bonus on results; unlimited scope for doing Store Business at popular prices; must invest £100 in shares. "Secretary," 367 Lordship Lane, Dulwich.

DISPENSER required at the West Riding Asylum, Wakefield; candidates must possess the Major qualification of the Pharmaceutical Society, and be prepared to devote the whole of their time to the duties of their office; the salary is £104, without board or residence. Applications, stating age, previous experience, married or single state, and accompanied by copies of recent testimonials, should be sent, not later than the 12th of December, to the Medical Director.

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CLEAR; Locum-tenens; qualified. 13 Air Street, Regent Street, W.

JUNIOR; 21; good all-round experience. T., 45 Sainsbury Road, Gipsy Hill.

JUNIOR; 21; disengaged. Kemp, c/o Read's Drug Stores, Victoria Street, S.W.

LOCUM; disengaged; qualified; 27; best references. H., 13 Peter Street, Yeovil.

JUNIOR; 20½; disengaged; 5 years' good experience. P., 37 High Street, Brixton.

TEMPORARY, till June; Midlands preferred; qualified. "Chemist," 23 John Street, Ryde, I.W.

JUNIOR; 23; accustomed to Dispensing; disengaged. W. T., 29 Congreve Street, Birmingham.

MANAGER; outdoors; qualified; 38; abstainer. "Chemicus," 112 Foxberry Road, Brockley.

LOCUM; experienced Counterman; abstainer; qualified; 29½. "Locum," Sea Houses, Chathill.

ASSISTANT, qualified, 25, abstainer, requires permanency; outdoors. R. Page, 97 Brockley Rise, S.E.

LOCUM or Manager by an M.P.S.; West-end experience. P. S., 50 Rylott Road, Shepherd's Bush, W.

BRANCH Managership; aged 27; highest references. Idris, 31 Taplow Street, City Road, E.C.

ASSISTANT; 30; good experience; disengaged. "Beta," 70 Old Christchurch Road, Bournemouth.

LOCUM-TENENS or permanency; qualified; first-class experience. X. Y. Z., 208 Seven Sisters Road, N.

MANAGER or Assistant, with or without view to succession. "Chemist," Post-office, Bonnyrigg.

TEMPORARY or Permanent; qualified; aged 29; London only. X., 76 Hercules Road, Lambeth, S.E.

ASSISTANT or Manager; Minor; 27; good experience; extract. Lewis, Barnsfield Terrace, Carmarthen.

JUNIOR; unqualified; 21; 6 years' experience; disengaged. Barrett, Hingstone House, Cornwood, Ivybridge.

JUNIOR; unqualified; 23; London and country experience. "Cortex," 44 Burrard Road, West Hampstead, N.W.

GOOD all-round man, unqualified, seeks immediate engagement; 27; 5 ft. 9 in. Rae, 38 Belmont Road, Bristol.

SENIOR, Locum, or Branch Manager; highest references; disengaged. "Statim," Station Road, Romsey.

OUTDOOR Assistant; aged 36; Photography; good references. "Beta," 13 Piermont Road, East Dulwich, S.E.

SURGEON'S Dispenser; aged 31; unqualified; experienced; permanency. B., 127 Amhurst Road, London, N.E.

AS Junior in good Dispensing Business; aged 20; height 5 ft. 10 in.; disengaged. Welch, Hereford Road, Monmouth.

MIDLANDS; in good-class business; qualified; 24; 7½ years' experience. A. E. Marshall, 13 Pier Street, Ryde, I.W.

QUALIFIED Assistant; 25; London preferred. "Will," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME; disengaged 6 P.M.; Stock or Counter; or 2 or 3 evenings a week. "Chemist," 82 Crowndale Road, N.W.

DISENGAGED on 10th; Junior; tall; good all-round experience; satisfactory reference. A. S., 1 Frank Place, North Shields.

LADY as Improver; passed Apothecaries' Hall and Prelim.; had experience; aged 23. L. A. B., Avenue House, Quy, Cambridge.

AS Manager or Senior; aged 29; qualified; long references, with varied experience; disengaged. "Chemist," 42 Fenchurch Street.

MANAGER; 27; married; qualified Prescriber, Photographic; permanency desired. "Radix," Hillsborough, Weston-super-Mare.

TRAVELLER; 29½; good trade experience; highest references; gentlemanly address; abstainer. "Commercial," Sea Houses, Chathill.

IMPROVER, in good London house; 22; tall; qualified; no experience beyond apprenticeship. "Immediate," 40 Lower Redland Road, Bristol.

AS Manager; qualified; all-round experience; good references; retail or wholesale; married; 38. "Quercus," 3 Bradford Terrace, Bolton.

MANAGER or Assistant; qualified; aged 30; married; Extractor; Prescriber; Photography; Linguist. "Chemist," 14 Stanley Street, Hull.

TO Surgeons.—Dispenser and Accoucheur will give services for Board. Address, T. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 20; 4 years' good-class experience; disengaged after Christmas; Liverpool or Manchester preferred. H. S., 31 Devonshire Road, Birkenhead.

AN experienced Assistant (outdoors); unqualified; Extractor; tall; good references. Lloyd, 95 Thompson Street, Rochdale Road, Manchester.

JUNIOR or Improver; 20½; disengaged; height 5 ft. 7 in.; 4½ years' experience; Lancashire preferred. H. B. Langman, 43 Nantwich Road, Crewe.

GENERAL Assistant; 20 years' mixed experience; good references; abstainer; 36; single. "Omega," London Pharmacy, Boscombe, Bournemouth.

ENGAGEMENT required as Assistant or Manager with view to succession; or would invest £600 in a genuine Retail and Dispensing business, bearing strictest investigation; North-eastern counties preferred. X. Y. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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VALUATION only required; a genuine unopposed Retail and Prescribing Business; returns £9 weekly, large profits; situated in a good London suburb; rent £50, on lease; good house; about £250 cash required; good Prescriber would nearly double the present trade. 43/9, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IN a provincial town, about 100 miles from London; first-class Light Retail and Dispensing Business, making a net annual profit of over £800; premises occupy an excellent position in centre of town, and to anyone with the necessary capital it offers an opportunity very seldom available; price £2,500; references required. "Pilocarpin," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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WANTED, a good-class Retail and Dispensing Business in the South of England (sea-side preferred), showing a net profit of about £400; must bear fullest investigation; answers treated in confidence. Apply, with full particulars, to B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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FOR Sale, the whole of the Stock and Mahogany Fixtures of an old-established Chemist's; owner retiring from business; no reasonable offer refused. Address, W. M., 11 Lower Grosvenor Place, N.W.

TO LET.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

TO be Let, a handsomely and newly fitted Chemist's Shop, in main thoroughfare in S.E. district, or would sell with long lease. Apply, Newton, 97 City Road.

TO CHEMISTS.—Capital Shop and Basement to let (with or without living-rooms), 12 miles from London; good, improving neighbourhood; suit enterprising man, or Branch for an established firm. Address, "Certainty," c/o Gibbs, Smith & Co., 10 High Holborn.

CHELTENHAM (Colonnade).—In the best position in the town; to be let, First-class Business Premises (especially adapted for a high-class Chemist and Druggist), comprising large double-fronted shop excellent showrooms above, and abundant living accommodation; good basement; private entrance at side. Further information of Young & Gilling, Auctioneers, Cheltenham.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, at once, two Junior Assistants; sleep out, board in. Apply personally at 224 Earl's Court Road, S.W.

WANTED, youth as Junior for good Prescribing and Dental trade. State experience, Hulme, Chemist, Nottingham.

WANTED, Assistant, for Retail and Local Wholesale; outdoors. Apply, with full particulars, to H. Clarke, Chemist, Whitehaven.

QUALIFIED Assistant wanted with good Retail experience; Extractor; outdoors. J. Beedzler & Co., 20 Norton Folgate, London, E.C.

WANTED, reliable Assistant, for Dispensing and Retail; state age, height, salary required and references. J. O. Arnfield, 7 and 9 Lower Hillgate, Stockport.

AT once, a Junior or Improver; one who speaks Welsh preferred but not essential. Apply, with usual particulars, to Rees, Thomas & Son, Merthyr Tydfil.

WANTED, an Assistant for Country business; outdoors; good references. Apply, stating salary required, to Saunders & Son, Chemists, Haverfordwest.

DENTIST wanted (registered); state age, salary, references, &c., send photo; permanent appointment if suitable. Macdonald's (Limited), 29 Piccadilly, Manchester.

ST. LEONARDS.—December 19th; gentlemanly Junior; qualified, and accustomed to good-class trade. Apply, with carte and usual particulars, Jameson & Ourtis, Hastings.

WANTED, January 1, qualified Assistant, indoors, without board; must have good references and London experience. Kemp, 10 Bedford Terrace, Campden Hill, Kensington.

JUNIOR Assistant; experienced; good penman; accustomed to brisk Dispensing business. References, &c., to Messrs. William Inman & Co., Limited, 8 Shandwick Place, Edinburgh.

TAYLOR'S Drug Company (Limited) are in want of a smart, qualified Chemist; good salary given; no Sunday duty. Apply, with full particulars, to Registered Offices, 18 Guildford Street, Leeds.

WANTED, Improver (indoors), in a first-class Retail and Dispensing business. Apply, stating age, height, references, salary required, and enclosing carte, to C. L. Metcalfe, Pharmacist, Hull.

WANTED, a Junior, accustomed to good-glass Retail and Dispensing business. State all usual particulars (personal application preferred), J. Baxdon-Smith, 51 Holloway Road, Highbury, London, N.

A GOOD Junior or Improver (indoors), for a Dispensing and Family business. Apply, stating, age, height, salary, and reference, enclose photo, to John Newcome, Chemist, Grantham, Lincolnshire.

AN Assistant wanted by January 1 to manage a small branch; must be used to a Mixed trade. Apply, stating experience, salary expected, &c., to J. Llewellyn, Pharmaceutical Chemist, Cowbridge.

MANAGER wanted for Drug Stores in North of England; must be qualified and a smart, energetic counterman; references must bear thorough investigation. Apply to O., 10 Palatine Square, Burnley.

ANALYST, young, wanted, capable of preparing analyses of food, drinks, soaps, &c.; state full particulars, experience, &c., terms must be moderate. Address, O. K., 65 New Church Road, Camberwell, London, S.E.

QUALIFIED Assistant wanted; must be used to a General trade; one with knowledge of Photography preferred. Apply, stating age, experience, and salary (indoors) required, to T. Turner, Chemist, Longton, Staffs.

JUNIOR, after Christmas; indoors; must be active and obliging; time for study; not under 20 years. Apply, enclosing c.d.v., stating salary required, age, height, references, to W. Jacobs, Chemist, Guildford, Surrey.

WANTED, immediately, qualified General Assistant, aged about 23; one accustomed to quick Counter work and Dispensing; in or outdoors. Apply personally, before 1 or after 6 P.M., 49 Wells Street, Oxford Street, W.

SHARP Junior wanted, for Mixed business in S.E. London; one accustomed to East-end trade preferred; outdoors. Write, giving full particulars, to 36 20, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, at once, a qualified Manager for Branch; outdoors, and a 5 day week; salary and commission; exceptional opportunity to a suitable man. Apply, with full particulars to save time, to Cornwell, Chemist, Hanley.

WANTED, a good reliable Assistant indoors; one used to a modern town business, to help work up same; must be a good window-dresser and accurate. Write or call, giving full particulars, to F., 130 High Street, Notting Hill Gate, W.

AFTER Christmas, two smart Juniors for high-class Stores; quiet, obliging, good countermen; state age, height, salary, and experience; personal interview preferred. Mitchell & Bayes, 56 & 80 Woodgrange Road, Forest Gate, E.

CANNON STREET ON A FRIDAY MORNING.

PILLMAN: Do you know of anything that would suit me, Spatula

SPATULA: Suit you Why, you need never seek long. There are always plenty of first-rate situations advertised in the *C. & D.* Supplement, which they give to anybody who asks for it.

THE ROYAL PHARMACY ON A MONDAY EVENING.

MAUGHTER: You seem to have dropped into a comfortable crib, Pestell. How did you come to hear of it?

PESTELL: Why, from the *C. & D.* Supplement, of course. How else do you think?

BRIGHTON ON A WEDNESDAY AFTERNOON.

BROWN: Well, I am surprised! You seem to take things easy, Jones. I thought you could never leave your business.

JONES: Ah, but I can now. I got a good assistant through advertising in the *C. & D.* Supplement, so Mrs. J. and I often take a little run out together now.

DAISY COTTAGE ON A SATURDAY EVENING.

THOMPSON: This is better than slaving away in the old shop on a Saturday night, isn't it, Johnson?

JOHNSON: Rather, my boy. I sold my business well, too, thanks to the *C. & D.* Supplement, and only had to advertise it once. You see I still take the good old paper. It's always interesting. What will you have?

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